

February 16, 2024: Compounds introduced or investigated in Kenneth A. Jacobson's lab (kennethj@niddk.nih.gov) at NIDDK (Molecular Recognition Section, MRS) or through collaborations. Orange compounds are or will soon be available commercially as research tools:

Abbreviation	Action	Reference (year, vol:page) **
<b>AB-MECA</b>	selective A <sub>3</sub> adenosine agonist, to radioiodinate	JMC (1994) 37:636
<b>ADAC (MRS998)</b>	selective A <sub>1</sub> adenosine agonist (46)	BP (1987) 36:1697 JMC (2012) 55:8075
<b>Alexa488-APEC</b>	fluorescent A <sub>2A</sub> adenosine receptor agonist	EJP (2008) 590:36
<b>APEC</b>	selective A <sub>2A</sub> adenosine agonist (6)*	JMC (1994) 37:3614
<b>3'-Benzylamino-3'-deoxy-ATP</b>	Potent P2X agonist (25)	DDR (1994) 31:206
<b>Benzyl-NECA</b>	potent A <sub>3</sub> adenosine agonist	MP (1994) 45:1101
<b>Biotin-ADAC</b>	A <sub>1</sub> adenosine receptor agonist biotin conjugate	BP (1987) 36:1697
<b>Biotin-TAC</b>	M <sub>2</sub> muscarinic antagonist (9)	BC (1992) 3:234
<b>BTH<sub>4</sub></b>	non-N-containing adenosine antagonist (7)	JMC (1996) 39:398
<b>CI-IB-MECA</b> (namodenoson, CF102)	selective A <sub>3</sub> adenosine agonist (13)	JMC (1994) 37:3614 BP (2020) 117:113934 NP (2017) 114:101
<b>CMB6446</b>	selective A <sub>2B</sub> adenosine antagonist	BMC (2003) 11:77
<b>CSC</b>	selective A <sub>2A</sub> adenosine antagonist	JMC (1993) 36:1333
<b>DBXR</b>	xanthine riboside as adenosine antagonist	JMC (1994) 37:4020
<b>DBXRM</b>	selective A <sub>3</sub> adenosine agonist	JMC (1994) 37:4020
<b>m-DITC-ADAC</b>	selective A <sub>1</sub> adenosine agonist affinity label (46)	JMC (1989) 32:1043
<b>p-DITC-ADAC</b>	selective A <sub>1</sub> adenosine agonist affinity label (45)	JMC (1989) 32:1043
<b>m-DITC-APEC</b>	selective A <sub>2A</sub> adenosine agonist affinity label (11)	JMR (1989) 32:1043
<b>p-DITC-APEC</b>	selective A <sub>2A</sub> adenosine agonist affinity label (12)	JMR (1989) 32:1043
<b>m-DITC-XAC</b>	selective A <sub>1</sub> adenosine antagonist affinity label (10)	JMC (1989) 32:1043
<b>p-DITC-XAC</b>	selective A <sub>1</sub> adenosine antagonist affinity label (9)	JMC (1989) 32:1043
<b>DPCPX (John Daly)</b>	selective A <sub>1</sub> adenosine antagonist (1) (15)	BP (1988) 37:3653 JMC (1988) 31:613
<b>DU124182</b>	selective A <sub>3</sub> adenosine PAM (2-cPent-4-O-Ph)	MP (2002) 62:81
<b>DU124183</b>	selective A <sub>3</sub> adenosine PAM (2-cPent-4-NH-Ph)	MP (2002) 62:81 MP (2003) 63:1021
<b>DU124184</b>	selective A <sub>3</sub> adenosine PAM (2-cPent-4-NH-cPent)	MP (2002) 62:81
<b>DU124482</b>	selective A <sub>3</sub> adenosine PAM (2-Ph-4-NH-cPent)	MP (2002) 62:81
<b>FE@SUPPLY</b> (MRS1532)	selective A <sub>3</sub> adenosine antagonist (7)	JMC (1999) 42:706
<b>FITC-ADAC</b>	fluorescent A <sub>1</sub> adenosine receptor agonist	BP (1987) 36:1697
<b>FITC-APEC</b>	fluorescent A <sub>2A</sub> adenosine receptor agonist*	JF (1992) 2:217
<b>I-AB-MECA</b>	A <sub>3</sub> adenosine agonist (26)	JMC (1994) 37:636 MP (1994) 45:978
<b>IB-MECA</b> (piclidenoson, CF101)	selective A <sub>3</sub> adenosine agonist (16)	JMC (1994) 37:636 NP (2017) 114:101
<b>IB-MECA prodrug</b>	selective A <sub>3</sub> adenosine agonist diester (38)	JMC (1995) 38:1720
<b>IB-MECA prodrugs</b>	selective A <sub>3</sub> adenosine agonist diesters (5-7)	CCC (2006) 71:912

<b>ICBM (MRS1163)</b>	selective A <sub>3</sub> adenosine agonist affinity label ( <b>4</b> )	BBRC (1994) 203:570
<b>[<sup>125</sup>I]-ZM241,385</b>	selective A <sub>2A</sub> adenosine antagonist radioligand	PS (2023) in press
<b>[<sup>125</sup>I]-AB-MECA</b>	A <sub>3</sub> adenosine agonist radioligand	MP (1996) 48:970
<b>[<sup>125</sup>I]-azido-PAPA-APEC</b>	A <sub>2A</sub> adenosine agonist photoaffinity radioligand	ACSPT (2022) 5(8):625
<b>LC260</b>	selective A <sub>3</sub> adenosine agonist, 2-triazole ( <b>15</b> )	MP (1994) 45:978
<b>LJ529</b> <small>CHEMBL200732</small>	selective A <sub>3</sub> agonist (4'-S-Cl-IB-MECA, <b>3</b> ) ( <b>39a</b> ) ( <b>6</b> )	MP (1991) 39:130
<b>LJ1258 (MRS3884)</b>	selective A <sub>3</sub> agonist (4'-S-IB-MECA, <b>5h</b> ) <small>CHEMBL522152</small>	JMC (2006) 49:7373
<b>LJ1351 (MRS3973)</b>	hA <sub>3</sub> receptor antagonist (3-Br-Bn, <i>N,N</i> -diMe, <b>6c</b> )	JMC (2003) 46:3775
<b>LJ1888 (LJ1251, MRS3820)</b>	selective A <sub>3</sub> adenosine antagonist ( <b>6e</b> ) ( <b>9d</b> ) ( <b>3c</b> )	JMC (2006) 49:273
<b>LJ2126 (MRS5292)</b>	hA <sub>3</sub> receptor antagonist/A <sub>2A</sub> agonist ( <b>4a</b> )	JMC (2007) 50:3159
<b>LJ2163 (MRS5450)</b>	hA <sub>3</sub> receptor antagonist ( <b>6a</b> )	JMC (2017) 60:7459
<b>LJ2521 (MRS5584)</b>	hA <sub>3</sub> receptor antagonist ( <b>6c</b> )	JMC (2012) 55:342
<b>LJ2698 (MRS5014, FM101)</b>	hA <sub>3</sub> receptor antagonist ( <b>9b</b> ) ( <b>3c</b> )	JMC (2021) 64:12525
<b>LJ3429 (MRS7002)</b>	selective A <sub>3</sub> seleno-adenosine agonist ( <b>3p</b> )	JMC (2021) 64:12525
<b>LJ3440 (MRS5742)</b> <small>CHEMBL4088081</small>	selective A <sub>3</sub> agonist (4'-Se-IB-MECA, <b>3d</b> )	JMC (2007) 50:3159
<b>LJ4378 (MRS5281)</b>	hA <sub>3</sub> receptor antagonist/A <sub>2A</sub> agonist ( <b>4g</b> )	JMC (2017) 60:7459
<b>LJ4517 (MRS7049)</b>	hA <sub>2A</sub> receptor nucleoside antagonist ( <b>2</b> )	JMC (2017) 60:3422
<b>cLNA-adenosine</b>	first carbocyclic "locked" nucleoside ( <b>23</b> )	JMC (2017) 60:3422
<b>LUF5999</b>	weak A <sub>3</sub> adenosine allosteric modulator	JMC (2012) 55:342
<b>LUF6000</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>4</b> )	JMC (2022) 65(8):6325
<b>metrifudil</b>	mixed A <sub>1</sub> /A <sub>3</sub> adenosine agonist, 2-Me-Bn ( <b>11</b> )	OL (2003) 5:1665
<b>MG325</b>	selective A <sub>1</sub> adenosine agonist, nonnucleoside ( <b>27</b> )	BP (2011) 82:658
<b>MMPD</b>	A <sub>1</sub> adenosine partial agonist PET ligand ( <b>22b</b> )	JMC (2006) 49:3354
<b>MRS512</b>	A <sub>1</sub> /A <sub>3</sub> adenosine antagonist (xanthine, <b>21</b> )	ACSPT (2022) 5(8):625
<b>MRS541</b>	IB-Ado, A <sub>3</sub> low efficacy agonist ( <b>4</b> ) ( <b>7a</b> )	JMC (2005) 48:1745
<b>MRS542</b>	A <sub>3</sub> adenosine low efficacy agonist/antagonist ( <b>5</b> )	ACSCN (2021) 12:3410
<b>MRS582</b>	carbocyclic IB-MECA, A <sub>3</sub> adenosine agonist ( <b>3</b> )	JMC (2018) 61:9966
<b>MRS1067</b>	selective flavonoid A <sub>3</sub> adenosine antagonist ( <b>11e</b> )	JMC (1994) 37: 3373
<b>MRS1177</b>	selective hA <sub>3</sub> adenosine antagonist ( <b>10</b> )	JMC (2002) 45:4471
<b>MRS1178</b>	A <sub>2B</sub> adenosine antagonist ( <b>39</b> )	JMC (2000) 43:2196
<b>MRS1186</b>	selective hA <sub>3</sub> adenosine antagonist ( <b>3</b> )	JMC (2002) 45:4471
<b>MRS1191</b>	selective hA <sub>3</sub> adenosine antagonist (DHP, <b>2</b> )	JMC (2000) 43:2196
		JMC (1996) 39:2293
		JMC (1996) 39:4142
		JMC (1998) 41:2835
		JMC (1996) 39:4142
		JMC (1997) 40:2596
		NP (2017) 114:101

<b>MRS1220</b>	selective hA <sub>3</sub> adenosine antagonist ( <b>12</b> )	JMC (1996) 39:4142 PS (2021) 17:737 ACSPT (2023) 6:1266
<b>MRS1292</b>	selective A <sub>3</sub> adenosine antagonist ( <b>14</b> )	JMC (2002) 45:4471
<b>MRS1334</b>	selective hA <sub>3</sub> adenosine antagonist (DHP, <b>24g</b> )	JMC (1997) 40:2596 PS (2021) 17:737
<b>MRS1458</b>	irreversible (sulfonyl-F) A <sub>3</sub> antagonist ( <b>19</b> )	BC (1999) 10:667
<b>MRS1476</b>	selective hA <sub>3</sub> adenosine antagonist ( <b>6</b> ) ( <b>38</b> )	JMC (1999) 42:706 JMC (1998) 41:3186
<b>MRS1477</b>	allosteric enhancer of TRPV1 channels (DHP)	JPET (2012) 340:152
<b>MRS1486</b>	selective A <sub>3</sub> adenosine antagonist ( <b>45</b> )	JMC (1998) 41:3186
<b>MRS1505</b>	selective A <sub>3</sub> adenosine antagonist ( <b>44</b> )	JMC (1998) 41:3186
<b>MRS1523</b>	selective A <sub>3</sub> adenosine antagonist ( <b>4</b> ) ( <b>39b</b> )	JMC (1999) 42:706 JMC (1998) 41:3186 PS (2021) 17:737 NP (2017) 114:101
<b>MRS1595</b>	selective A <sub>2B</sub> adenosine antagonist ( <b>14</b> )	DDR (1999) 47:178
<b>MRS1649</b>	permanently charged A <sub>3</sub> antagonist ( <b>11</b> )	JMC (1999) 42:4232
<b>aristeromycin</b>	carbocyclic-adenosine ( <b>5b</b> ), A <sub>2A</sub> agonist	JMC (2000) 43:2196
<b>MRS1655</b>	(N)-methanocarba-adenosine ( <b>5c</b> ), A <sub>3</sub> agonist	JMC (2000) 43:2196
<b>MRS1656</b>	(S)-methanocarba-adenosine ( <b>5d</b> ), racemic	JMC (2000) 43:2196
<b>MRS1667</b>	prodrug ( <b>24</b> ) of permanently charged A <sub>3</sub> antagonist	JMC (1999) 42:4232
<b>MRS1706</b>	selective A <sub>2B</sub> adenosine antagonist ( <b>20</b> )	JMC (2000) 43:1165
<b>MRS1740</b>	A <sub>3</sub> adenosine low efficacy agonist/antagonist	JMC (2002) 45:4471
<b>MRS1743</b>	A <sub>3</sub> adenosine low efficacy agonist ( <b>17</b> ) ( <b>7c</b> )	JMC (2002) 45:4471 JMC (2000) 43:2196
<b>MRS1748</b>	A <sub>2B</sub> adenosine antagonist, long residence time ( <b>17</b> )	BP (2022) 200:115027
<b>MRS1754</b>	selective A <sub>2B</sub> adenosine antagonist ( <b>27</b> )	JMC (2000) 43:1165
<b>[<sup>3</sup>H]MRS1754</b>	selective A <sub>2B</sub> adenosine antagonist radioligand	BP (2001) 61:657
<b>MRS1758</b>	A <sub>2B</sub> adenosine antagonist ( <b>18</b> )	BP (2022) 200:115027
<b>MRS1760</b>	A <sub>3</sub> adenosine low efficacy agonist/antagonist ( <b>18</b> ) ( <b>9c</b> )	JMC (2002) 45:4471 JMC (2000) 43:2196
<b>MRS1761</b>	2-Cl-(N)-methanocarba- <i>N</i> <sup>6</sup> -cyclopentyl-Ado ( <b>8c</b> )	JMC (2000) 43:2196
<b>MRS1765</b>	selective A <sub>2B</sub> adenosine antagonist ( <b>33</b> )	JMC (2000) 43:1165
<b>MRS1781</b>	(N)-methanocarba- <i>N</i> <sup>6</sup> -cyclopentyl-Ado ( <b>6c</b> )	JMC (2000) 43:2196
<b>MRS1845</b>	inhibitor of store-operated calcium channels	BP (2003) 65:329
<b>MRS1873</b>	mixed A <sub>1/3</sub> adenosine agonist ( <b>21</b> )	JMC (2019) 62:1502
<b>MRS1878</b>	mixed A <sub>2A/2B</sub> adenosine antagonist ( <b>22</b> )	BP (2022) 200:115027
<b>MRS1898</b>	selective A <sub>3</sub> adenosine agonist ( <b>5</b> ) [ <sup>125</sup> I]MRS1898	JMC (2005) 48:1745 PS (2009) 5:31
<b>MRS1940</b>	(N)-methanocarba-NECA ( <b>5</b> ), potent AR agonist	BMCL (2001) 11:1333
<b>MRS1941</b>	(N)-methanocarba-guanosine ( <b>8</b> ), weak A <sub>3</sub> ligand	BMCL (2001) 11:2295
<b>MRS1942</b>	(N)-methanocarba-NBTI, ENT1 inhibitor	OL (2001) 3:597
<b>MRS1947</b>	<i>N</i> <sup>6</sup> -Me-(N)-methanocarba-inosine ( <b>13</b> ) weak at A <sub>3</sub>	JMC (2016) 59:11006
<b>MRS1957</b>	(N)-methanocarba-inosine ( <b>5</b> ), weak at A <sub>3</sub>	BMCL (2001) 11:2295
<b>MRS1997</b>	(N)-methanocarba-MECI ( <b>6</b> ), weak A <sub>3</sub> agonist	BMCL (2001) 11: 2295

MRS2055	P2Y <sub>12</sub> agonist ( <b>17b</b> )	JMC (2002) 45:4057
MRS2154	P2X <sub>2</sub> antagonist, dihydropyridine deriv. ( <b>5a</b> )	JANS (2000) 81:152
MRS2159	selective P2X <sub>1</sub> antagonist, pyridoxal deriv.	JMC (2001) 44:340
MRS2160	P2X <sub>1</sub> and P2X <sub>2</sub> antagonist, pyridoxal deriv. ( <b>38</b> )	JMC (2002) 45:4057
MRS2179	selective P2Y <sub>1</sub> deoxyribose antagonist ( <b>9</b> )	JMC (1998) 41:183
	( <b>2</b> )	JMC (1999) 42:1625
MRS2191	P2Y <sub>1</sub> and P2X <sub>2</sub> antagonist, pyridoxal deriv. ( <b>42</b> )	JMC (2002) 45:4057
MRS2210	nonnucleotide P2Y <sub>1</sub> antagonist, related to PPADS	DDR (2002) 57:173
MRS2211	selective, nonnucleotide P2Y <sub>13</sub> antagonist	BP (2005) 70:266
MRS2216	selective P2Y <sub>1</sub> deoxyribose antagonist ( <b>6</b> )	JMC (1999) 42:1625
MRS2219	P2X <sub>1</sub> allosteric enhancer ( <b>2</b> )	JMC (1998) 41:2201
MRS2220	P2X <sub>1</sub> antagonist ( <b>3</b> )	JMC (1998) 41:2201
MRS2231	weak P2Y <sub>1</sub> deoxyribose antagonist ( <b>6</b> )	JCIM (2017) 57:3104
MRS2239	selective P2Y <sub>1</sub> deoxyribose antagonist ( <b>15</b> )	JCIM (2017) 57:3104
MRS2242	selective P2Y <sub>1</sub> deoxyribose partial agonist ( <b>13</b> )	JMC (1999) 42:1625
MRS2255	P2Y <sub>1</sub> bisphosphate anhydroxitol agonist ( <b>36</b> )	JMC (1999) 42:1625
MRS2257	P2X <sub>1</sub> , P2X <sub>2</sub> , P2X <sub>4</sub> antagonist, pyridoxal deriv. ( <b>9</b> )	JMC (2001) 44:340
MRS2268	P2Y <sub>1</sub> methanocarba bisphosphate agonist ( <b>4a</b> )	JMC (2000) 43:829
MRS2275	selective P2Y <sub>1</sub> methanocarba antagonist ( <b>19</b> )	JCIM (2017) 57:3104
MRS2277	P2Y <sub>1</sub> acyclic bisphosphate antagonist ( <b>37</b> )	JCIM (2017) 57:3104
MRS2279	selective P2Y <sub>1</sub> methanocarba antagonist ( <b>5</b> )	JMC (2003) 46:4974
MRS2283	P2Y <sub>1</sub> anhydroxitol antagonist ( <b>32</b> )	JCIM (2017) 57:3104
	( <b>12</b> )	BMC (2004) 12:5619
MRS2286	selective P2Y <sub>1</sub> acyclic bisphosphate antagonist ( <b>12</b> )	JMC (2002) 45:5694
MRS2297	selective P2Y <sub>1</sub> antagonist ( <b>13</b> )	JMC (2002) 45:5694
MRS2298	selective P2Y <sub>1</sub> acyclic bisphosphate antagonist	BP (2004) 68:1995
MRS2303	P2Y <sub>1</sub> acyclic bisphosphate antagonist ( <b>35</b> )	JCIM (2017) 57:3104
MRS2304	(N)-methanocarba-AMP, no effect at P2Y <sub>1</sub> ( <b>4a</b> )	JMC (2002) 45:208
MRS2306	selective P2X <sub>7</sub> antagonist ( <b>2</b> )	BMCL (2008) 18:571
MRS2312	(S)-methanocarba-ATP, weak P2Y <sub>1</sub> /P2Y <sub>2</sub> ag. ( <b>8a</b> )	JMC (2002) 45:208
MRS2339	cardiac P2X <sub>4</sub> agonist	JMC (2010) 53:2562
	2-Cl-(N)-methanocarba-AMP, weak P2Y <sub>1</sub> ag. ( <b>13a</b> )	JMC (2002) 45:2090
MRS2340	(N)-methanocarba-ATP, P2X, P2Y agonist	DDR (2004) 61:227
	( <b>6a</b> )	JMC (2002) 45:2090
MRS2341	(N)-methanocarba-UTP, P2Y <sub>2</sub> /P2Y <sub>4</sub> agonist ( <b>5a</b> )	JMC (2002) 45:208
MRS2343	2-Cl-N <sup>6</sup> -Me-(N)-methanocarba-ATP, P2Y <sub>1</sub> agonist ( <b>15a</b> )	JMC (2002) 45:2090
MRS2347	2-MeS-(N)-methanocarba-AMP, weak P2Y <sub>1</sub> ag. ( <b>10a</b> )	JMC (2002) 45:2090
MRS2352	β,γ-me-(N)-methanocarba-ATP, P2Y <sub>1</sub> agonist ( <b>17a</b> )	JMC (2002) 45:2090
MRS2365	selective P2Y <sub>1</sub> agonist (2-MeS-ADP analogue, <b>9a</b> )	JMC (2002) 45:2090
MRS2367	2-Cl-(N)-methanocarba-ATP, P2Y <sub>1</sub> agonist ( <b>12a</b> )	JMC (2002) 45:2090
MRS2371	N <sup>6</sup> -Me-methanocarba-ATP, P2Y <sub>1</sub> ag. ( <b>14a</b> )	JMC (2002) 45:2090
MRS2395	P2Y <sub>12</sub> antagonist (moderate potency)	JMC (2002) 45:5694
MRS2427	selective P2X <sub>7</sub> antagonist ( <b>16</b> )	BMCL (2008) 18:571
MRS2457	TNA-bisphosphate, P2Y <sub>1</sub> antagonist ( <b>9</b> )	BMC (2004) 12:5619
MRS2488	TNA-triphosphate, P2Y <sub>2</sub> agonist ( <b>13</b> )	BMC (2004) 12:5619

<b>MRS2496</b>	selective P2Y <sub>1</sub> antagonist	BP (2004) 68:1995
<b>MRS2481</b>	blocker of Ca <sup>2+</sup> channel formed by amyloid pept.	PNAS (2009) 106:3348
<b>MRS2500</b>	selective P2Y <sub>1</sub> methanocarba antagonist	JMC (2003) 46:4974
<b>MRS2503</b>	selective P2Y <sub>1</sub> methanocarba antagonist (26)	JCIM (2017) 57:3104
<b>MRS2519</b>	selective P2Y <sub>1</sub> methanocarba antagonist (22)	JCIM (2017) 57:3104
<b>MRS2520</b>	selective P2Y <sub>1</sub> methanocarba antagonist (20)	JCIM (2017) 57:3104
<b>MRS2540</b>	selective P2X <sub>7</sub> antagonist	EER (2010) 91:425
<b>MRS2567</b>	Selective P2Y <sub>6</sub> antagonist	BP (2004) 67:1763
<b>MRS2576</b>	nonselective, irrev. P2Y receptor antagonist	BP (2004) 67:1763
<b>MRS2577</b>	irrev. P2Y <sub>4</sub> /P2Y <sub>6</sub> receptor antagonist	BP(2004) 67:1763
<b>MRS2578</b>	selective P2Y <sub>6</sub> antagonist (irreversible, insurmountable)	BP (2004) 67:1763
	inactive at P2Y <sub>14</sub> R	BMCL (2015) 25:4733
<b>MRS2584</b>	P2Y <sub>1</sub> carbocyclic-LNA antagonist (21)	BMC (2004) 12:5619
<b>MRS2603</b>	P2Y <sub>1</sub> /P2Y <sub>13</sub> antagonist, nonnucleotide	BP (2005) 70:266
<b>MRS2608</b>	precursor of radiolabeled P2Y <sub>1</sub> antagonist (14)	JMC (2007) 50:3229
<b>MRS2611</b>	selective P2Y <sub>1</sub> methanocarba antagonist (27)	JCIM (2017) 57:3104
<b>MRS2633</b>	P2Y <sub>6</sub> (S)-methanocarba 2'-d agonist (10)	JMC (2005) 48:8108
<b>MRS2666</b>	P2Y <sub>6</sub> 2-OBH agonist (19)	JMC (2006) 49:5532
<b>MRS2670</b>	selective P2Y <sub>14</sub> agonist (4-thio) (13)	JMC (2007) 50:2030
<b>MRS2690</b>	selective P2Y <sub>14</sub> agonist (2-thio) (15)	JMC (2007) 50:2030
	(3)	BMCL (2015) 25:4733
<b>MRS2693</b>	selective P2Y <sub>6</sub> agonist (32)	JMC (2006) 49:5532
<b>MRS2698</b>	selective P2Y <sub>2</sub> agonist (8)	JMC (2007) 50:1166
<b>MRS2703</b>	caged P2Y <sub>1/12/13</sub> agonist (4)	BP (2008) 75:1341
<b>MRS2768</b>	selective P2Y <sub>2</sub> agonist (30)	BMC (2008) 16:6319
<b>MRS2782</b>	potent and selective P2Y <sub>6</sub> agonist, $\alpha,\beta$ -me-UDP (9)	BMC (2008) 16:6319
<b>MRS2801</b>	putative allosteric P2Y <sub>2</sub> receptor partial agonist (7)	BMCL (2009) 19:3002
<b>MRS2802</b>	selective P2Y <sub>14</sub> agonist (12)	JMC (2010) 53:471
<b>MRS2815</b>	mixed P2Y <sub>6</sub> and P2Y <sub>14</sub> agonist (11)	JMC (2010) 53:4488
<b>MRS2816</b>	carboxylic P2Y <sub>1</sub> antagonist (8)	BC (2010) 21:1190
<b>MRS2829</b>	precursor of radioiodinated P2Y <sub>1</sub> antagonist (6)	PR (2010) 62:344
<b>MRS2892</b>	amine-functionalized P2Y <sub>14</sub> agonist (3a)	BC (2009) 20:1650
<b>MRS2900</b>	selective P2Y <sub>1</sub> methanocarba antagonist (29)	JCIM (2017) 57:3104
<b>MRS2905</b>	selective P2Y <sub>14</sub> agonist (11)	JMC (2010) 53:471
<b>MRS2907</b>	selective P2Y <sub>14</sub> agonist (18)	JMC (2010) 53:471
<b>MRS2925</b>	cardiac P2X <sub>4</sub> agonist	JMC (2010) 53:2562
<b>MRS2927</b>	slightly selective P2Y <sub>4</sub> agonist (34)	JMC (2011) 54:4018
<b>MRS2???</b>	slightly selective P2Y <sub>4</sub> agonist (15)	JMC (2011) 54:4018
<b>MRS2950</b>	nonnucleotide P2Y <sub>1</sub> receptor antagonist (2a)	BMC (2012) 20:5254
<b>MRS2957</b>	Potent and selective P2Y <sub>6</sub> agonist (23)	JMC (2010) 53:4488
	(12)	BMCL (2015) 25:4733
<b>MRS2964</b>	Potent and selective P2Y <sub>6</sub> agonist (15)	JMC (2010) 53:4488
<b>MRS2973</b>	pan-agonist of P2Y <sub>2</sub> , P2Y <sub>4</sub> and P2Y <sub>6</sub>	JMC (2011) 54:4018
<b>MRS2978</b>	in vivo, cardiac P2X <sub>4</sub> agonist	JMC (2013) 56:902

MRS3210	carbocyclic-LNA adenosine (23)	PS (2020) 16:61
MRS3342	2-I-N <sup>6</sup> -Me LNA adenosine (19)	OL (2003) 5:1665
MRS3366	orthogonal A <sub>2A</sub> adenosine agonist for neoceptor	BMC (2004) 12:5619
MRS3474	putative allosteric P2Y <sub>1</sub> receptor NAM (20)	TIPS (2007) 28:111
MRS3481 (LJ1254)	orthogonal A <sub>3</sub> adenosine agonist for neoceptor	OBC(2005) 3:2016
MRS3489	selective A <sub>3</sub> adenosine agonist, 2,2-di-Ph-Et (34)	JMC (2006) 49:2689
MRS3554	selective A <sub>3</sub> adenosine agonist, 2,5-di-Cl-Bn (20)	JMC (2005) 48:1745
MRS3558 (CF502)	selective A <sub>3</sub> adenosine agonist, 3-Cl-Bn (18)	JMC (2005) 48:1745
MRS3581	selective Br-76 A <sub>3</sub> adenosine agonist	JMC (2005) 48:1745
MRS3602	selective A <sub>3</sub> adenosine agonist, 2,5-di-MeO-Bn (26)	NMB (2009) 36:3
MRS3609	selective A <sub>3</sub> adenosine agonist (35)	JMC (2005) 48:1745
MRS3611	selective A <sub>3</sub> adenosine agonist (36)	JMC (2005) 48:1745
MRS3630	mixed A <sub>1</sub> and A <sub>3</sub> adenosine agonist (2)	JMC (2005) 48:8103
MRS3638	mixed A <sub>1</sub> and A <sub>3</sub> adenosine agonist (3)	JMC (2005) 48:8103
MRS3642 (LJ1256)	selective A <sub>3</sub> adenosine antagonist (7)	JMC (2005) 48:8103
MRS3706	mixed A <sub>1</sub> and A <sub>3</sub> adenosine agonist (1)	BMCL (2006) 16:596
MRS3771	selective A <sub>3</sub> adenosine antagonist (6)	JMC (2005) 48:8103
MRS3775	selective A <sub>3</sub> adenosine antagonist (21, CAY 10498)	BMCL (2006) 16:596
MRS3777	selective A <sub>3</sub> adenosine antagonist (22)	JMC (2005) 48:4910
MRS3997	A <sub>2B</sub> adenosine agonist (28)	JMC (2005) 48:4910
MRS4062	selective P2Y <sub>4</sub> agonist (16)	JMC (2007) 50:1810
MRS4063	clickable P2Y <sub>6</sub> receptor agonist (15)	JMC (2011) 54:4018
MRS4074	in vivo, cardiac P2X <sub>4</sub> agonist	MCC (2013) 4:1156
MRS4084	in vivo, cardiac P2X <sub>4</sub> agonist	JMC (2013) 56:902
MRS4129	selective fluorescent (AF488) P2Y <sub>6R</sub> agonist	JMC (2013) 56:902
MRS4149	alkyne-functionalized P2Y <sub>14</sub> antagonist (22)	MCC (2013) 4:1156
		ACSCB (2014) 9:2833
		ACSML (2020) 11:1281
MRS4160	clickable P2Y <sub>2/4/6</sub> receptor agonist (26)	JMC (2014) 57:3874
MRS4162	fluorescent (Bodipy) P2Y <sub>2/4/6</sub> receptor agonist	JMC (2014) 57:3874
MRS4174	fluorescent (AF488) P2Y <sub>14</sub> receptor antagonist (30)	ACSCB (2014) 9:2833
MRS4183	fluorescent (Bodipy) P2Y <sub>14</sub> receptor agonist (11)	BMCL (2015) 25:4733
MRS4202	adenosine kinase inhibitor (34)	JMC (2016) 59:6860
MRS4203	adenosine kinase inhibitor (38a)	JMC (2016) 59:6860
MRS4217	selective P2Y <sub>14</sub> antagonist (65)	JMC (2016) 59:6149
MRS4322	mixed A <sub>1/3</sub> adenosine agonist (8a)	RSCA (2021) 11:27369
		PS (2020) 16:543
MRS4380	adenosine kinase inhibitor (55)	JMC (2016) 59:6860
MRS4383	P2Y <sub>6</sub> receptor (S)-methanocarba agonist (18)	MCC (2017) 8:1897
MRS4387	P2Y <sub>6</sub> receptor dinucleotide agonist (24)	MCC (2017) 8:1897
MRS4458	selective P2Y <sub>14</sub> antagonist (20)	JMC (2018) 61:4860
MRS4478	selective P2Y <sub>14</sub> antagonist (30)	JMC (2018) 61:4860
MRS4519	P2Y <sub>14</sub> receptor antagonist (minimal deriv., 2)	ACSML (2020) 11:1281
MRS4552	Nucleotide CD73 inhibitor (9h)	JMC (2019) 62:3677
MRS4554	P2Y <sub>6</sub> receptor agonist (28)	BMCL (2021) 45:128137
MRS4589	(S)-methanocarba-GTP (4a)	BIOM (2022) 12:584

<b>MRS4590</b>	(N)-methanocarba-GTP ( <b>4d</b> )	BIOM (2022) 12:584
<b>MRS4591</b>	(S)-methanocarba-GMP-PCP ( <b>4b</b> )	BIOM (2022) 12:584
<b>MRS4596</b>	P2X <sub>4</sub> receptor antagonist ( <b>22c</b> )	JMC (2022) 5:13967
<b>MRS4598</b>	Nucleotide CD73 inhibitor ( <b>16</b> )	JMC (2022) 65:2409
<b>MRS4602</b>	Nucleotide CD73 inhibitor ( <b>21</b> )	JMC (2022) 65:2409
<b>MRS4608</b>	P2Y <sub>14</sub> receptor antagonist (quinuclidine, <b>17</b> )	JMC (2020) 63:9563
<b>MRS4616</b>	P2Y <sub>14</sub> receptor antagonist (quaternary N, <b>21</b> )	JMC (2020) 63:9563
<b>MRS4620</b>	Nucleotide CD73 inhibitor ( <b>18</b> )	JMC (2022) 65:2409
<b>MRS4622</b>	Nucleotide CD73 inhibitor ( <b>20</b> )	JMC (2022) 65:2409
<b>MRS4625</b>	P2Y <sub>14</sub> receptor antagonist ( <b>4</b> ) ( <b>8</b> )	ACSML (2020) 11:1281 JMC (2020) 63:9563
<b>MRS4654</b>	P2Y <sub>14</sub> receptor antagonist ( <b>32</b> )	JMC (2021) 64:5099
<b>MRS4656</b>	P2Y <sub>6</sub> receptor antagonist ( <b>16</b> ) ( <b>6</b> )	BMCL (2021) 41:128008 BMCL (2022) 75:128981
<b>MRS4695</b>	P2Y <sub>6</sub> receptor antagonist ( <b>7</b> ) ( <b>4</b> )	BMCL (2021) 41:128008 BMCL (2022) 75:128981
<b>MRS4706</b>	P2Y <sub>6</sub> receptor antagonist ( <b>14</b> )	BMCL (2021) 41:128008
<b>MRS4719</b>	P2X <sub>4</sub> receptor antagonist ( <b>21u</b> )	JMC (2022) 5:13967
<b>MRS4738</b>	P2Y <sub>14</sub> receptor antagonist ( <b>15</b> ) ( <b>2b</b> )	JMC (2022) 65:3434 JMC (2023) 66:9076
<b>MRS4741</b>	P2Y <sub>14</sub> receptor antagonist prodrug ( <b>37c</b> )	JMC (2021) 64:5099
<b>MRS4745</b>	P2Y <sub>14</sub> receptor antagonist ( <b>22</b> )	JMC (2022) 65:3434
<b>MRS4746</b>	P2Y <sub>14</sub> receptor antagonist ( <b>23</b> )	JMC (2022) 65:3434
<b>MRS4748</b>	P2Y <sub>14</sub> receptor antagonist ( <b>38</b> )	JMC (2022) 65:3434
<b>MRS4757</b>	P2Y <sub>14</sub> receptor antagonist ester prodrug ( <b>144</b> )	JMC (2022) 65:3434
<b>MRS4758</b>	P2Y <sub>14</sub> receptor antagonist ester prodrug ( <b>145</b> )	JMC (2022) 65:3434
<b>MRS4759</b>	mixed A <sub>3</sub> agonist/P2Y <sub>14</sub> receptor antagonist	ACSPT (2022), 5:973
<b>MRS4774</b>	P2Y <sub>6</sub> receptor antagonist ( <b>8</b> )	BMCL (2021) 41:128008
<b>MRS4773</b>	P2Y <sub>6</sub> receptor antagonist ( <b>9</b> )	BMCL (2021) 41:128008
<b>MRS4779</b>	P2Y <sub>14</sub> receptor antagonist prodrug ( <b>141</b> ) ( <b>63</b> )	JMC (2022) 65:3434 JMC (2023), 66(13):9076
<b>MRS4806</b>	P2Y <sub>14</sub> receptor antagonist ester prodrug ( <b>146</b> )	JMC (2022) 65:3434
<b>MRS4815</b>	P2Y <sub>14</sub> receptor antagonist double prodrug ( <b>143</b> ) ( <b>64</b> )	JMC (2022) 65:3434 JMC (2023), 66(13):9076
<b>MRS4817</b>	P2Y <sub>6</sub> receptor antagonist ( <b>24</b> )	BMCL (2022) 75:128981
<b>MRS4820</b>	P2Y <sub>14</sub> receptor antagonist ( <b>8</b> )	JMC (2023), 66(13):9076
<b>MRS4830</b>	P2Y <sub>6</sub> receptor antagonist ( <b>11</b> )	BMCL (2022) 75:128981
<b>MRS4833</b>	P2Y <sub>14</sub> receptor antagonist ( <b>15</b> )	JMC (2023), 66(13):9076
<b>MRS4839</b>	P2Y <sub>6</sub> receptor antagonist ( <b>25</b> )	BMCL (2022) 75:128981
<b>MRS4841</b>	P2Y <sub>6</sub> receptor antagonist ( <b>27</b> )	BMCL (2022) 75:128981
<b>MRS4842</b>	P2Y <sub>6</sub> receptor antagonist ( <b>28</b> )	BMCL (2022) 75:128981
<b>MRS4845</b>	P2Y <sub>14</sub> receptor antag. double prodrug ( <b>62</b> ) of PPTN	JMC (2023), 66(13):9076
<b>MRS4849</b>	P2Y <sub>14</sub> R antag. carbamate prodrug ( <b>61</b> ) of PPTN	JMC (2023), 66(13):9076
<b>MRS4853</b>	P2Y <sub>6</sub> receptor antagonist ( <b>26</b> )	BMCL (2022) 75:128981
<b>MRS4855</b>	P2Y <sub>14</sub> receptor antag. prodrug ( <b>50</b> ) of MRS4833	JMC (2023), 66(13):9076
<b>MRS4910</b>	P2Y <sub>14</sub> R antag. ester prodrug ( <b>49</b> ) of MRS4833	JMC (2023), 66(13):9076

<b>MRS4911</b>	P2Y <sub>14</sub> R antag. carbamate prodrug ( <b>51</b> ) of MRS4833	JMC (2023), 66(13):9076
<b>MRS4917</b>	P2Y <sub>14</sub> R antag.	unpublished
<b>MRS5024 (LJ1915)</b>	selective A <sub>3</sub> adenosine antagonist ( <b>5d</b> )	BMCL (2009) 17:3733
<b>MRS5025 (LJ1916)</b>	selective A <sub>3</sub> adenosine antagonist ( <b>5e</b> )	BMCL (2009) 17:3733
<b>MRS5127</b>	selective A <sub>3</sub> adenosine antagonist ( <b>8</b> ) [ <sup>125</sup> I]MRS5127	JMC (2012) 36:3 BP (2010) 79:967
<b>MRS5147</b>	selective Br-76 A <sub>3</sub> adenosine antagonist	NMB (2009) 23:232
<b>MRS5151</b>	selective A <sub>3</sub> adenosine agonist ( <b>18a</b> ) ( <b>6</b> )	BMCL (2008) 18:2813 JMC (2009) 15:3994
<b>MRS5219</b>	biotin-conjugated selective A <sub>3</sub> adenosine ag. ( <b>17a</b> )	JMC (2009) 15:3994
<b>MRS5158</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>11</b> ) ( <b>12a</b> )	ACSPT (2022) 5(8):625 JMC (2022) 65(22):15238
<b>MRS5190</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>12</b> ) ( <b>12b</b> )	ACSPT (2022) 5(8):625 JMC (2022) 65(22):15238
<b>MRS5202</b>	N <sup>6</sup> -(3-I-Bn)-2-Cl-(N)-methanocarpa-A-4'-trunc. ( <b>3</b> )	JMC (2016) 59:11006
<b>MRS5206</b>	selective fluorescent A <sub>2A</sub> agonist (AF488)	NI (2013) 63:42
<b>MRS5216</b>	dendrimeric A <sub>3</sub> adenosine agonist	PR (2012) 65:338
<b>MRS5218</b>	selective fluorescent (Cy5) A <sub>3</sub> adenosine agonist	BP (2013) 85:1171
<b>MRS5221</b>	clickable A <sub>3</sub> adenosine agonist ( <b>5</b> )	BMCP (2011) 11:11
<b>MRS5233</b>	triazole-model A <sub>3</sub> adenosine agonist ( <b>3</b> )	BMCP (2011) 11:11
<b>MRS5246</b>	dendrimeric A <sub>3</sub> adenosine agonist ( <b>6</b> )	BMCP (2011) 11:11
<b>MRS5303</b>	quantum dot-immobil. A <sub>2A</sub> adenosine agonist ( <b>13</b> )	JNB (2010) 8:11
<b>MRS5318</b>	amine-functionalized A <sub>2A</sub> adenosine antagonist ( <b>7</b> )	BMCL (2011) 21:2740
<b>MRS5342</b>	clickable A <sub>3</sub> adenosine agonist ( <b>9</b> )	BC (2012) 23:232
<b>MRS5346</b>	selective fluorescent (AF488) A <sub>2A</sub> AR antagonist	BP (2010) 80:506
<b>MRS5347</b>	fluorescent (TAMRA) A <sub>2A</sub> adenosine antagonist	BMCL (2013) 23:26
<b>MRS5383</b>	dendrimeric selective A <sub>2A</sub> adenosine antagonist ( <b>17</b> )	BMCL (2011) 21:2740
<b>MRS5398</b>	clickable adenosine receptor antagonist ( <b>4</b> )	BC (2011) 22:1115
<b>MRS5415</b>	selective A <sub>3</sub> adenosine agonist ( <b>32</b> )	JMC (2012) 36:3
<b>MRS5418</b>	fluorescent (Bodipy) A <sub>2A</sub> adenosine antagonist	BMCL (2013) 23:26
<b>MRS5424</b>	fluorescent A <sub>2A</sub> receptor agonist (AF532)	JN (2008) 590:36
<b>MRS5425</b>	selective F-18 A <sub>2A</sub> adenosine antagonist	NMB (2011) 38:897
<b>MRS5449</b>	selective fluorescent (AF488) A <sub>3</sub> AR antagonist	BP (2012) 83:1552
<b>MRS5474</b>	selective A <sub>1</sub> adenosine agonist ( <b>10</b> )	JMC (2012) 55:8075 NP (2017) 114:101
<b>MRS5474</b>	Enterovirus A71 antiviral ( <b>31</b> )	BMCL (2020) 30:127599
<b>MRS5543</b>	light switchable adenosine agonist	BC (2014) 25:1847
<b>MRS5621</b>	A <sub>2A</sub> adenosine agonist, D-His conjugate ( <b>42</b> )	JMC (2012) 55:538
<b>MRS5630</b>	gold-immobil. A <sub>3</sub> adenosine agonist ( <b>21b</b> )	PS (2013) 9:183
<b>MRS5655</b>	highly selective A <sub>3</sub> adenosine agonist ( <b>27</b> )	JMC (2012) 55:4847
<b>MRS5657</b>	highly selective A <sub>3</sub> adenosine ag. (p-F, N <sup>6</sup> -Me, <b>13</b> )	JMC (2012) 55:4847
<b>MRS5661</b>	highly selective A <sub>3</sub> adenosine ag. (2-pyridyl, <b>19</b> ) ( <b>10</b> )	JMC (2014) 57: 9901 JMC (2012) 55:4847
<b>MRS5663</b>	highly selective A <sub>3</sub> adenosine ag. (o-Cl, N <sup>6</sup> -Me, <b>14</b> ) ( <b>11</b> )	JMC (2012) 55:4847 JMC (2014) 57: 9901
<b>MRS5676</b>	mixed A <sub>3</sub> agonist+dopamine transporter modulator	JPET (2016) 357:24

		(36)	JMC (2016) 59:11006
<b>MRS5678</b>	highly selective A <sub>3</sub> adenosine ag. (p-F, <b>28</b> )		JMC (2012) 55:4847
<b>MRS5679</b>	highly selective A <sub>3</sub> adenosine ag. (biphenyl, <b>35</b> )		JMC (2012) 55:4847
<b>MRS5698</b>	highly selective A <sub>3</sub> adenosine agonist (3,4-F <sub>2</sub> , <b>31</b> )		JMC (2012) 55:4847
			PS (2015) 11:371
<b>MRS5699</b>	highly selective A <sub>3</sub> adenosine ag. (p-NH <sub>2</sub> , <b>32</b> )		JMC (2012) 55:4847
<b>MRS5700</b>	highly selective A <sub>3</sub> adenosine ag. (m-COOH, <b>33</b> )		JMC (2012) 55:4847
<b>MRS5701</b>	selective water soluble A <sub>1</sub> /A <sub>3</sub> adenosine agonist ( <b>6</b> )		JMC (2013) 56:5949
		(34)	JMC (2012) 55:4847
<b>MRS5728</b>	gold-immobil. A <sub>1</sub> /A <sub>2A</sub> adenosine antagonist ( <b>26a</b> )		PS (2013) 9:183
<b>MRS5761-MRS5762</b>	A <sub>3</sub> adenosine antagonists		US 9,227,979 B2
			MCC (2019) 10:1094
<b>MRS5763</b>	selective fluorescent (AF488) A <sub>3</sub> AR antagonist ( <b>23</b> )		EJMC (2020) 186:111886
<b>MRS5776</b>	selective A <sub>3</sub> adenosine antagonist		JMC (2013) 56:5949
<b>MRS5811-MRS5840</b>	A <sub>3</sub> adenosine antagonists		US 9,227,979 B2
			MCC (2019) 10:1094
<b>MRS5841</b>	selective water-soluble A <sub>3</sub> adenosine agonist ( <b>7</b> )		JMC (2013) 56:5949
			NP (2017) 114:101
<b>MRS5842</b>	fluorescent (Alexa647) A <sub>2A</sub> receptor antagonist		JCR (2018) 283:135
<b>MRS5854</b>	A <sub>2A</sub> adenosine receptor affinity label		ACSMCL (2014) 5:1043
<b>MRS5861</b>	selective sulfonate hA <sub>3</sub> adenosine antagonist ( <b>16</b> )		JMC (2013) 56:5949
<b>MRS5911</b>	A <sub>2B</sub> adenosine agonist (originally from IJzerman lab)		BP (2018) 151:201
<b>MRS5923</b>	selective A <sub>3</sub> adenosine antagonist ( <b>8</b> )		DDR (2000) 49:85
<b>MRS5930</b>	A <sub>3</sub> antagonist, an adenine deriv. ( <b>1</b> ) A <sub>3</sub> antagonist, $\alpha_{2B}$ adrenergic receptor ligand ( <b>9</b> )		PONE (2014) 9:e97858
			JMC (2016) 59:11006
<b>MRS5942</b>	novel A <sub>1</sub> /A <sub>2A</sub> /A <sub>3</sub> adenosine antagonist ( <b>23</b> )		PONE (2014) 9:e97858
<b>MRS5969</b>	furan-2-yl-ethynyl selective A <sub>3</sub> adenosine ag. ( <b>27</b> )		JCIM (2015) 55:550
<b>MRS5975</b>	c-hexylethynyl selective A <sub>3</sub> adenosine agonist ( <b>38</b> )		JMC (2014) 57: 9901
<b>MRS5976</b>	c-propylethynyl selective A <sub>3</sub> adenosine agonist ( <b>37</b> )		JMC (2014) 57: 9901
<b>MRS5979</b>	ferrocene-containing A <sub>3</sub> adenosine agonist ( <b>36</b> )		JMC (2014) 57: 9901
<b>MRS5980</b>	highly selective A <sub>3</sub> adenosine agonist ( <b>33</b> ) (10)		JMC (2014) 57: 9901
			ACSMCL (2015) 6:804
<b>MRS7111</b>	selective A <sub>3</sub> adenosine agonist (2-triazole) ( <b>23</b> )		ACSMCL (2015) 6:804
<b>MRS7116</b>	selective A <sub>3</sub> adenosine agonist ( <b>9</b> )		MCC (2015) 6:555
<b>MRS7126</b>	selective A <sub>3</sub> adenosine agonist ( <b>15</b> )		MCC (2015) 6:555
<b>MRS7134</b>	5-HT <sub>2</sub> methanocarba antagonist and A <sub>1</sub> agonist ( <b>14</b> )		JMC (2016) 59:11006
<b>MRS7135</b>	selective A <sub>3</sub> adenosine agonist ( <b>11</b> )		ACSMCL (2015) 6:804
<b>MRS7138</b>	selective A <sub>3</sub> adenosine agonist ( <b>17</b> )		MCC (2015) 6:555
<b>MRS7140</b>	selective A <sub>3</sub> adenosine agonist ( <b>19</b> )		ACSMCL (2015) 6:804
<b>MRS7144</b>	selective A <sub>3</sub> adenosine agonist ( <b>20</b> )		ACSMCL (2015) 6:804
<b>MRS7145</b>	photoactivatable A <sub>2A</sub> receptor antagonist		JCR (2018) 283:135
<b>MRS7146</b>	selective A <sub>3</sub> adenosine agonist, cPr-me ( <b>17</b> )		ACSMCL (2015) 6:804
<b>MRS7151</b>	CHEMBL4079448		
	selective A <sub>3</sub> agonist (4'-Se-Cl-IB-MECA, <b>3p</b> )		JMC (2017) 60:3422
<b>MRS7154</b>	selective A <sub>3</sub> adenosine agonist ( <b>12</b> )		ACSMCL (2015) 6:804

<b>MRS7158</b>	<i>N</i> <sup>6</sup> -diMe-(N)-methanocarba ( <b>42</b> ), inactive A <sub>3</sub>	JMC (2016) 59:11006
<b>MRS7168</b>	novel mixed A <sub>1</sub> /A <sub>3</sub> adenosine agonist ( <b>14</b> )	ACSCB (2016) 11:2763
<b>MRS7185</b>	5-HT <sub>2B</sub> methanocarba antagonist ( <b>23</b> )	JMC (2016) 59:11006
<b>MRS7216</b>	tethered A <sub>2A</sub> adenosine agonist for bone ( <b>8a</b> )	ART (2022) 24:265
<b>MRS7220</b>	selective A <sub>3</sub> adenosine agonist, lacking 6-NH ( <b>21</b> )	JMC (2016) 59:3249
<b>MRS7221</b>	5-HT <sub>2</sub> methanocarba antagonist ( <b>26</b> )	JMC (2016) 59:11006
<b>MRS7232</b>	dopamine transporter allosteric modulator ( <b>10</b> ) ( <b>24</b> )	JMC (2017) 60:3109 ACSO (2018) 3:12658
<b>MRS7235</b>	<i>N</i> <sup>6</sup> -diMe-(N)-methanocarba ester ( <b>29</b> ), inactive A <sub>3</sub>	JMC (2016) 59:11006
<b>MRS7240</b>	mixed A <sub>2A/3</sub> adenosine antagonist ( <b>36</b> )	SR (2017) 7:6398
<b>MRS7249</b>	<i>N</i> <sup>6</sup> -cPr <sub>2</sub> Me-2-Cl-(N)-methanocarb-A-5'-Pr-ester ( <b>27</b> )	JMC (2016) 59:11006
<b>MRS7251</b>	dopamine transporter allosteric modulator ( <b>14</b> ) ( <b>30</b> )	JMC (2017) 60:3109 ACSO (2018) 3:12658
<b>MRS7292</b>	dopamine transporter allosteric modulator ( <b>9</b> )	JMC (2017) 60:3109
<b>MRS7293</b>	<i>N</i> <sup>6</sup> -cPr <sub>2</sub> Me-2-Cl-(N)-methanocarb-A-5'-Me-ester ( <b>25</b> )	JMC (2016) 59:11006
<b>MRS7296</b>	dopamine transporter allosteric modulator, rib. ( <b>29</b> )	JMC (2017) 60:3109
<b>MRS7299</b>	κ-opioid antagonist (nucleoside) ( <b>28</b> )	ACSO (2018) 3:12658
<b>MRS7304</b>	dopamine transporter allosteric modulator ( <b>16</b> ) ( <b>32</b> )	JMC (2017) 60:3109 ACSO (2018) 3:12658
<b>MRS7322</b>	fluorescent (Cy5) A <sub>2A</sub> receptor antagonist ( <b>9</b> )	MCC (2017) 8:1659 Cells (2020) 9:1200
<b>MRS7323</b>	P-gp and ABCG2 inhibitor ( <b>8</b> ) ( <b>17</b> )	MP (2019) 96:180 EJMC (2022) 231:114103
<b>MRS7331</b>	κ-opioid antagonist (nucleoside) ( <b>39</b> )	ACSO (2018) 3:12658
<b>MRS7334</b>	A <sub>3</sub> adenosine receptor agonist, K <sub>i</sub> 0.28 nM ( <b>16</b> )	ACSML (2020) 11:1935
<b>MRS7335</b>	κ-opioid antagonist (nucleoside) ( <b>40</b> )	ACSO (2018) 3:12658
<b>MRS7343</b>	κ-opioid partial agonist (nucleoside) ( <b>43</b> )	ACSO (2018) 3:12658
<b>MRS7344</b>	photocleavable A <sub>3</sub> adenosine agonist	PR (2021) 170:105731
<b>MRS7352</b>	sulfonated A <sub>2A</sub> receptor antagonist ( <b>13</b> )	MCC (2017) 8:1659
<b>MRS7358</b>	κ-opioid antagonist (truncated nucleoside) ( <b>54</b> )	ACSO (2018) 3:12658
<b>MRS7395</b>	fluorescent (AF647) A <sub>2A</sub> receptor antagonist ( <b>10</b> )	MCC (2017) 8:1659 Cells (2020) 9:1200
<b>MRS7396</b>	fluorescent (Bodipy) A <sub>2A</sub> receptor antagonist ( <b>11</b> )	MCC (2017) 8:1659
<b>MRS7416</b>	fluorescent (AF488) A <sub>2A</sub> receptor antagonist ( <b>12</b> )	MCC (2017) 8:1659
<b>MRS7422</b>	A <sub>3</sub> adenosine agonist (Cl-IB-MECA) prodrug ( <b>5</b> )	PS (2020) 16:367
<b>MRS7431</b>	A <sub>3</sub> adenosine antagonist in PAM series ( <b>17</b> ) ( <b>1</b> )	JMC (2022) 65(22):15238 ACSPT (2022) 5(8):625
<b>MRS7469</b>	A <sub>1</sub> receptor agonist ( <b>9</b> )	JMC (2019) 62:1502
<b>MRS7476</b>	A <sub>3</sub> adenosine agonist (MRS5698) prodrug ( <b>6</b> )	PS (2020) 16:367
<b>MRS7489</b>	A <sub>2A</sub> adenosine agonist ( <b>4</b> )	CS (2021) 12:960
<b>MRS7497</b>	human A <sub>3</sub> receptor antagonist (adenine deriv., <b>17</b> )	MCC (2018) 9:1920
<b>MRS7535</b>	fluorescent (Cy7) A <sub>3</sub> antagonist ( <b>19</b> )	PS (2023) 19, 565
<b>MRS7551</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>13</b> ) ( <b>14</b> )	ACSPT (2022) 5(8):625 JMC (2022) 65(22):15238
<b>MRS7591</b>	human and mouse A <sub>3</sub> receptor partial agonist ( <b>15</b> )	JMC (2020) 63:4334
<b>MRS7608</b>	ABCG2 inhibitor ( <b>37c</b> )	EJMC (2022) 231:114103

<b>MRS7618</b>	A <sub>3</sub> adenosine agonist ( <b>11</b> )	EJMC (2022) 228:113983
<b>MRS7663</b>	A <sub>2B</sub> adenosine antagonist, irreversible ( <b>29</b> )	BP (2022) 200:115027
<b>MRS7704</b>	Enterovirus A71 antiviral ( <b>48</b> )	BMCL (2020) 30:127599
<b>MRS7734</b>	macrocyclic precursor A <sub>3</sub> adenosine agonist ( <b>11</b> )	ACSPT (2023) 6:1288
<b>MRS7735</b>	macrocyclic A <sub>3</sub> adenosine agonist ( <b>12</b> )	ACSPT (2023) 6:1288
<b>MRS7774</b>	Fluorescent (JF646) A <sub>2A</sub> antagonist ( <b>12</b> )	PS (2023) 19, 565
<b>MRS7788</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>18</b> )	JMC (2022) 65(22):15238
<b>MRS7792</b>	A <sub>3</sub> partial agonist, ester, N <sup>6</sup> -2-Ph-Et ( <b>27</b> )	EJMC (2022) 228:113983
<b>MRS7799</b>	A <sub>3</sub> adenosine antagonist, DPTN	PS (2021) 17:737
	A <sub>3</sub> adenosine antagonist, DPTN ( <b>9</b> )	ACMCL (2022) 13:623
		ACSPT (2023) 6:1266
		ACMCL (2022) 13:623
<b>[<sup>3</sup>H]MRS7799</b>	A <sub>3</sub> adenosine antagonist radioligand	EJMC (2022) 231:114103
<b>MRS7800</b>	ABCG2 inhibitor ( <b>64</b> )	CC (2021) 57:12305
<b>MRS7816</b>	selective A <sub>1</sub> adenosine antagonist ( <b>22</b> )	ACSPT (2022) 5(8):625
<b>MRS7827</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>7</b> )	JMC (2022) 65(22):15238
	( <b>20</b> )	ACMCL (2022) 13:623
<b>MRS7907</b>	A <sub>3</sub> adenosine antagonist ( <b>16d</b> )	ACSPT (2023) 6:1266
		EJMC (2023) 259:115691
<b>MRS7925</b>	5-HT <sub>2B</sub> methanocarba antagonist ( <b>43</b> )	ACMCL (2023) 14(12):1640
<b>MRS7932</b>	selective A <sub>1</sub> adenosine allosteric enhancer ( <b>21</b> )	ACMCL (2023) 14(12):1640
<b>MRS7935</b>	selective A <sub>1</sub> adenosine allosteric enhancer ( <b>15</b> )	ACMCL (2023) 14(12):1640
<b>MRS7944</b>	selective A <sub>1</sub> adenosine allosteric enhancer ( <b>12</b> )	ACSPT (2023) 6:1288
<b>MRS8033</b>	macrocyclic A <sub>3</sub> adenosine agonist ( <b>19</b> )	ACSPT (2023) 6:1288
<b>MRS8035</b>	macrocyclic precursor A <sub>3</sub> adenosine agonist ( <b>18</b> )	JMC (2022) 65(22):15238
<b>MRS8054</b>	selective A <sub>3</sub> adenosine allosteric enhancer ( <b>39</b> )	ACMCL (2022) 13:623
<b>MRS8074</b>	A <sub>3</sub> adenosine antagonist ( <b>19</b> )	EJMC (2023) 259:115691
<b>MRS8099</b>	5-HT <sub>2B</sub> methanocarba antagonist ( <b>45</b> )	EJMC (2023) 259:115691
<b>MRS8134</b>	5-HT <sub>2B</sub> methanocarba antagonist ( <b>48</b> )	unpublished
<b>MRS8247</b>	selective A <sub>3</sub> adenosine allosteric enhancer (C8)	unpublished
<b>MRS8308</b>	selective A <sub>3</sub> adenosine allosteric enhancer (C9)	unpublished
<b>MRS8339</b>	selective A <sub>3</sub> adenosine allosteric enhancer (piperid.)	unpublished
<b>MRS8340</b>	selective A <sub>3</sub> adenosine allosteric enhancer (piperaz.)	unpublished
<b>NCK33</b>	polo-box domain, Polo-like kinase1 inhibitor ( <b>79</b> )	JMC (2020) 63:14087
<b>NCK100</b>	polo-box domain, Polo-like kinase1 inhibitor ( <b>143</b> )	JMC (2020) 63:14087
<b>NCK106</b>	polo-box domain, Polo-like kinase1 inhibitor ( <b>145</b> )	JMC (2020) 63:14087
<b>NCK103</b>	PBD, Polo-like kinase1 inhibitor ( <b>15</b> )	ACSPT (2023) 6(3):422
<b>NCK149</b>	PBD, Polo-like kinase1 inhibitor ( <b>43</b> )	ACSPT (2023) 6(3):422
<b>NCK167</b>	PBD, Polo-like kinase1 inhibitor prodrug ( <b>78</b> )	ACSPT (2023) 6(3):422
<b>NCK173</b>	PBD, Polo-like kinase1 inhibitor prodrug ( <b>80</b> )	ACSPT (2023) 6(3):422
<b>NCK189</b>	PBD, Polo-like kinase1 inhibitor, Allopole-A ( <b>3</b> )	PNAS (2023) Park et al.
<b>NCK190</b>	PBD, Plk1 inhibitor prodrug, Allopole ( <b>4</b> )	PNAS (2023) Park et al.
<b>NCK195</b>	PBD, Polo-like kinase1 inhibitor, biotin conj. ( <b>22</b> )	PNAS (2023) Park et al.
<b>NECA N1-oxide</b>	potent, nonselective adenosine agonist ( <b>29</b> )	MP (1994) 45:1101
<b>NECI</b>	inosine-related A <sub>3</sub> adenosine ( <b>53</b> )	MP (1994) 45:1101
<b>PAPA-APEC</b>	selective A <sub>2A</sub> adenosine agonist, to radioiodinate*	PNAS (1989) 86:6572
		MP (1991) 40:639

<b>PAPA-TAC</b>	M <sub>1</sub> muscarinic antagonist ( <b>6</b> )	BC (1992) 3:234
<b>PAPA-XAC</b>	A <sub>1</sub> adenosine antagonist, to radioiodinate	MP (1987) 32:184
<b>PAPA-XAC-SANPAH</b>	A <sub>1</sub> radioiodinated photoaffinity label	FL (1989) 257:292
<b>PAPET-ATP</b>	potent P <sub>2</sub> Y <sub>1</sub> , P <sub>2</sub> X <sub>1</sub> and P <sub>2</sub> X <sub>3</sub> agonist ( <b>16</b> )	JMC (2002) 45:4057
<b>PPTN</b>	selective P <sub>2</sub> Y <sub>14</sub> receptor antagonist	MP (2013) 84:41
	<b>(5)</b>	BMCL (2015) 25:4733
<b>SPA</b>	water-soluble, selective A <sub>1</sub> adenosine agonist*	JMC (1992) 35:4143
		NP (2017) 114:101
<b>SVP333</b>	selective P <sub>2</sub> Y <sub>2</sub> allosteric partial agonist ( <b>7c</b> )	BMC (2012) 20:2304
<b>TAC</b>	amine congener, muscarinic antagonist*	BC (1992) 3:234
<b>TEMPO-APEC</b>	spin labeled A <sub>2A</sub> adenosine agonist ( <b>15</b> )	JMR (1989) 32:1043
<b>TEMPO-XAC</b>	spin labeled A <sub>1</sub> /A <sub>2A</sub> adenosine antagonist	BP (1987) 36:1697
<b>4'-thio-CI-IB-MECA</b>		
<b>(LJ-529)</b>	selective A <sub>3</sub> adenosine agonist	JMC (2006) 49:273
<b>2-thio-UTP</b>	selective P <sub>2</sub> Y <sub>2</sub> receptor agonist	BP (2006) 71:540
<b>α-thiophosphates (Rp or Sp) of various uracil and adenine nucleotides</b>		
	selective P <sub>2</sub> Y <sub>6R</sub> or P <sub>2</sub> Y <sub>14R</sub> or other P <sub>2R</sub> agonists	NC (2023) in press.
<b>XAC</b>	potent, nonselective adenosine antagonist	PNAS (1985) 28:1334
	[ <sup>3</sup> H]XAC	ACSPT (2023) 6:1266
		NI (1991) 18:207
		NL (1988) 86:121
		PNAS (1986) 83:4089
	XAC on solid support (Affi-gel-10)	FL (1989) 257:292
<b>XCC</b>	potent, A <sub>1</sub> selective adenosine antagonist	JMC (1985) 28:1334
<b>VUF5455</b>	selective A <sub>3</sub> adenosine allosteric enhancer	MP (2003) 63:1021
<b>VUF8504</b>	selective A <sub>3</sub> adenosine allosteric enhancer	MP (2001) 60:1057
<b>WS98</b>	fluorescent (fluorescein) A <sub>2A</sub> AR antagonist ( <b>15</b> )	MCC (2019) 10:1094
<b>3288</b>	A <sub>2A</sub> receptor antagonist from mass spec screen	AC (2019) 91:8162
<b>3588</b>	A <sub>2A</sub> receptor antagonist from mass spec screen	AC (2019) 91:8162
<b>3676</b>	A <sub>2A</sub> receptor antagonist from mass spec screen	AC (2019) 91:8162

\* Available through the NIMH synthesis program

(<http://nimh-repository.rti.org/>)

\*\* journal abbreviation: EJMC, European Journal of Medicinal Chemistry; FL, FEBS Lett.; JANS, J. Autonom. Nerv. Syst.; JCIM, J. Chem. Inf. Modeling; JF, Journal of Fluorescence; JMC, Journal of Medicinal Chemistry; JMR, Journal of Molecular Recognition; JN, Journal of Neurochemistry; JPET, J. Pharmacol. Exp. Ther.; BP, Biochemical Pharmacology; BC, Bioconjugate Chemistry; DDR, Drug Devel. Res.; EER, Exp. Eye Res.; MCC, Med Chem Comm; MP, Molecular Pharmacology; NI, Neurochem. Int.; NL, Neurosci. Lett.; NMB, Nucl. Med. Biol.; NP, Neuropharmacology; OBC, Org. Biomol. Chem.; OL, Organic Lett.; PNAS, Proceedings of the National Academy of Sciences; BMC, Bioorganic and Medicinal Chemistry; BMCL, Bioorganic and Medicinal Chemistry Letters; BMCP, Biomed Central Pharmacol.; ACSCB, ACS Chemical Biology; ACSML, ACS Medicinal Chemistry Letters; ACSCN, ACS Chemical Neuroscience; ACS Omega, ACSO; CCC, Coll. Czech. Chem. Comm.; PR, Pharmacol. Res.; PR, Pharmacological Research; PS, Purinergic Signalling; PONE, PLoS ONE; RSCA, RSC Advances; SR, Scientific Reports; TIPS, Trends Pharmacol. Sci.; JCR, J. Controlled Release; AC, Analytical Chemistry; CS, Chemical Science; BIOM, Biomolecules; ACSPT, ACS

Pharmacology and Translational Science; ART, Arthritis Research and Therapy; US, US patent; NC, Nature Chemistry.

Many other compounds not listed here are available from MedKoo, <https://medkoo.com/>; Glxxx Labs, Inc., <http://www.glixlabs.com>

First 19 pages of PubChem “MRS” listings:

Name	PubChem IDs	CHEMBL	CAS registry no.
IB-MECA	<a href="#">123683</a>		
CI-IB-MECA	<a href="#">3035850</a>		
LUF6000	<a href="#">11711282</a>		
ADAC	<a href="#">2026</a> , <a href="#">126054</a> , <a href="#">23789715</a>		
TEMPO-ADAC	<a href="#">131718190</a>		
ADAC-NCS	<a href="#">131718368</a>		
APEC	<a href="#">3081741</a>		
PAPA-APEC	<a href="#">3081715</a>		
<sup>125</sup> I-AZIDO-PAPA-APEC	<a href="#">3083135</a>		
p-DITC-APEC	<a href="#">3037834</a>		
FITC-APEC	<a href="#">23772170</a>		
m-DITC-XAC	<a href="#">3082962</a>		
ED-p-DITC-XAC	<a href="#">3082963</a>		
XAC	<a href="#">5697</a>		
[ <sup>3</sup> H]XAC	<a href="#">5697</a>		
XAC-BY630	<a href="#">73755041</a>		
XCC	<a href="#">126079</a>		
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MRS1041	<a href="#">10247549</a>		
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MRS2927 [53262904](#)  
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MRS2957 [91827347](#)  
MRS2964 [46831685](#) CHEMBL1084612, CHEMBL1198872  
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MRS3057 [16087946](#)  
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MRS3310 (CI-936)  
[10388920](#)  
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MRS3558 [11248240](#), [45483955](#)  
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[16656768](#)  
MRS3718 [11618723](#)  
MRS3771 [11678491](#)  
MRS3775 [53394567](#)  
MRS3777 [56972200](#), [11771279](#)  
MRS3820 (LJ-1251)  
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MRS3997 [16203542](#)  
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MRS4084 [71562888](#)  
MRS4458 [134611895](#)  
MRS4478 [134611896](#)  
MRS4552 [146397156](#)  
MRS4596 [165413190](#)  
MRS4597 (o-Cl)  
[146397177](#)  
MRS4598 [164946892](#), [146397174](#)  
[162639258](#)  
MRS4601 (p-CF<sub>3</sub>)  
[153405662](#)  
MRS4608 [139392013](#)  
MRS4618 (p-Br)  
[146397175](#)  
MRS4620 [146397173](#), [163322134](#)  
MRS4621 (p-F)  
[146397176](#)  
MRS4625 [155817521](#), [155770281](#)  
MRS4645 (p-CH<sub>3</sub>)  
[146397273](#)

MRS4654 [164585602](#)  
MRS4695 (Me<sub>3</sub>Si) [164614469](#)  
MRS4719 [165413190](#)  
MRS4738 [163322040](#)  
MRS4748 (**38** in Wen et al., 2022) [164585647](#)  
MRS4774 (Et<sub>3</sub>Si P2Y<sub>6</sub> antag) [164628974](#)  
MRS4815 [164946890](#)  
MRS5049 (3,5-di-F-Ph) [44572478](#)  
MRS5098 [24827415](#)  
MRS5099 [24827417](#)  
MRS5100 [24827290](#)  
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MRS5147 [44579716](#)  
MRS5151 [44232535](#)  
MRS5166 [44448982](#)  
MRS5190 (2-adamantyl, A<sub>3</sub> PAM) [44572609](#)  
MRS5346 [70680953](#)  
MRS5418 [54587624](#)  
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MRS5980 [118730351](#)  
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MRS7907 [166633518](#)  
MRS8054 [166176970](#), [478109837](#)

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