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DATASHEET

MRS 2179 ammonium salt

Product overview

Name	MRS 2179 ammonium salt
Cat No	HB4241
Biological action	Antagonist
Purity	>98%
Description	Selective $P2Y_1$ antagonist. Inhibits platelet aggregation.

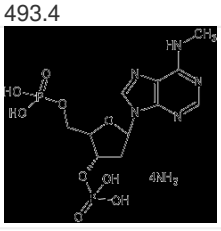
Biological Data

Biological description	Competitive $P2Y_1$ antagonist (K_i = 100 nM) which shows selectivity over $P2Y_2$, $P2Y_4$,$P2Y_6$ and $P2X_1$, $P2X_3$, $P2X_2$, $P2X_4$ receptors. Strongly inhibits ADP-induced platelet aggregation in vitro and ex vivo and shows antithrombotic action.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	2'-Deoxy-N^6-methyladenosine 3',5'-bisphosphate ammonium salt
Molecular Weight	493.4
Chemical structure	
Molecular Formula	$C_{11}H_{17}N_5O_9P_2.4NH_3$
CAS Number	101204-49-3
PubChem identifier	5311303
SMILES	CNC1=C2C(=NC=N1)N(C=N2)[C@H]3C[C@@H]([C@H](O3)COP(=O)(O)O)OP(=O)(O)O
Source	Synthetic
InChi	InChI=1S/C11H17N5O9P2/c1-12-10-9-11(14-4-13-10)16(5-15-9)8-2-6(25-27(20,21)22)7(24-8)3-23-26(17,18)19/h4-8H,2-3H2,1H3,(H,12,13,14)(H2,17,18,19)(H2,20,21,22)/t6-,7+,8+/m0/s1
InChiKey	CCPLITQNIFLYQB-XLPZGREQSA-N

References

The ADP antagonist MRS2179 regulates the phenotype of smooth muscle cells to limit intimal hyperplasia.

Liu R et al (2015) Cardiovascular drugs and therapy 29

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Anti-inflammatory effect of P2Y1 receptor blocker MRS2179 in a rat model of traumatic brain injury.

Kumagawa T et al (2022) Brain research bulletin 181
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The P2Y(1) receptor as a target for new antithrombotic drugs: a review of the P2Y(1) antagonist MRS-2179.

Baurand A et al (2003) Cardiovascular drug reviews 21
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Inhibition of platelet function by administration of MRS2179, a P2Y1 receptor antagonist.

Baurand A et al (2001) European journal of pharmacology 412
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