

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



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.
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Solubility & Handling

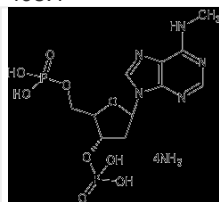
Storage instructions	-20 °C
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	2'-Deoxy- <i>N</i> ⁶ -methyladenosine 3',5'-bisphosphate ammonium salt
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Molecular Weight
Chemical structure

493.4



Molecular Formula	C ₁₁ H ₁₇ N ₅ O ₉ P 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

Chemical name	2'-Deoxy- <i>N</i> ⁶ -methyladenosine 3',5'-bisphosphate ammonium salt
InChiKey	CCPLITQNIPLYQB-XLPZGREQSA-N

References

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

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

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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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