
Product Data Sheet

Product Name: MRS2500 tetraammonium

Cat. No.: GC39759

Chemical Properties

Cas. No. 630103-23-0

SMILES O=P(O[C@@H]1[C@]2(COP(O[NH4]))(O[NH4])=O)[C@]2([H])[C@@H](N3C=NC4=C(NC)N=C(I)N=C34)C1)(O[NH4])O[NH4]

Formula $C_{13}H_{30}IN_9O_8P_2$ M.Wt 629.28Solubility H_2O : 50 mg/mL (79.46 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

MRS2500 tetraammonium is a potent, selective and stable antagonist of the P2Y1 receptor ($K_i=0.78$ nM for recombinant human P2Y1 receptor). MRS2500 tetraammonium inhibits the ADP-induced aggregation of human platelets with an IC_{50} value of 0.95 nM. Antithrombotic activity[1][2][3].

[1]. Hechler B, et al. MRS2500 [2-iodo-N6-methyl-(N)-methanocarba-2'-deoxyadenosine-3',5'-bisphosphate], a potent, selective, and stable antagonist of the platelet P2Y1 receptor with strong antithrombotic activity in mice. J Pharmacol Exp Ther. 2006;316(2):556-563. [2]. Cattaneo M, et al. Antiaggregatory activity in human platelets of potent antagonists of the P2Y 1 receptor. Biochem Pharmacol. 2004;68(10):1995-2002. [3]. Hechler B, et al. MRS2500 [2-iodo-N6-methyl-(N)-methanocarba-2'-deoxyadenosine-3',5'-bisphosphate], a potent, selective, and stable antagonist of the platelet P2Y1 receptor with strong antithrombotic activity in mice. J Pharmacol Exp Ther. 2006;316(2):556-563. [4]. Wong PC, et al. The P2Y1 receptor antagonist MRS2500 prevents carotid artery thrombosis in cynomolgus monkeys. J Thromb Thrombolysis. 2016;41(3):514-521.

Caution: Product has not been fully validated for medical applications. For research use only.

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