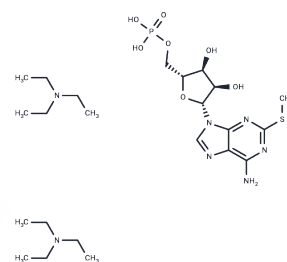


## 2-Methylthio-AMP diTEA

## Chemical Properties

CAS No. :	1227193-98-7
Formula:	C <sub>23</sub> H <sub>46</sub> N <sub>7</sub> O <sub>7</sub> P <sub>2</sub> S
Molecular Weight:	595.69
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	2-Methylthio-AMP diTEA (2-MeSAMP) is a selective and direct antagonist of the P2Y <sub>12</sub> receptor, effectively inhibiting ADP-dependent platelet aggregation[1][2][3].
Targets(IC50)	Others,P2Y Receptor
In vitro	2-Methylthio-AMP (2-MeSAMP) diTEA inhibits agonist-mediated αIIbβ <sub>3</sub> activation in platelets[1]. However, 2-methylthio-AMP (50 μM; for 5 minutes) diTEA does not significantly inhibit thrombin, PAR1-AP, PAR4-AP, or ADP-mediated platelet Ca <sup>2+</sup> mobilization. It also fails to inhibit Ca <sup>2+</sup> mobilization in P2Y <sub>12</sub> -deficient mouse platelets, and does not elevate cAMP or induce vasodilator-stimulated phosphoprotein phosphorylation in wild-type platelets[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6787 mL	8.3936 mL	16.7873 mL
5 mM	0.3357 mL	1.6787 mL	3.3575 mL
10 mM	0.1679 mL	0.8394 mL	1.6787 mL
50 mM	0.0336 mL	0.1679 mL	0.3357 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

John H Cleator, et al. Racial differences in resistance to P2Y12 receptor antagonists in type 2 diabetic subjects. J Pharmacol Exp Ther. 2014 Oct;351(1):33-43.

Bernhard H Rauch, et al. Regulation of functionally active P2Y12 ADP receptors by thrombin in human smooth muscle cells and the presence of P2Y12 in carotid artery lesions. Arterioscler Thromb Vasc Biol. 2010 Dec;30(12):2434-42.

A Malinin, et al. Validation of a VerifyNow-P2Y12 cartridge for monitoring platelet inhibition with clopidogrel. Methods Find Exp Clin Pharmacol. 2006 Jun;28(5):315-22.

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