

α,β -Methylene ATP trisodium

Chemical Properties

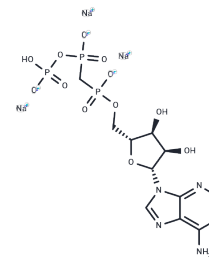
CAS No. : 1343364-54-4

Formula: C₁₁H₁₅N₅Na₃O₁₂P₃

Molecular Weight: 571.15

Storage: Store at low temperature, Store under nitrogen
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	α,β -Methylene ATP trisodium, a phosphonate analog of ATP, is a selective P2X agonist that induces enhanced contraction of UBSM. α,β -Methylene ATP trisodium inhibits P2X1 and P2X3, but is inactive against P2X2, 4 and 7.
Targets(IC50)	P2X Receptor

Solubility Information

Solubility	H ₂ O: 100 mg/mL (175.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7509 mL	8.7543 mL	17.5085 mL
5 mM	0.3502 mL	1.7509 mL	3.5017 mL
10 mM	0.1751 mL	0.8754 mL	1.7509 mL
50 mM	0.035 mL	0.1751 mL	0.3502 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

Arribas-Blázquez M, et al. Overexpression of P2X3 and P2X7 Receptors and TRPV1 Channels in Adrenomedullary Chromaffin Cells in a Rat Model of Neuropathic Pain. *Int J Mol Sci.* 2019 Jan 3;20(1).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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