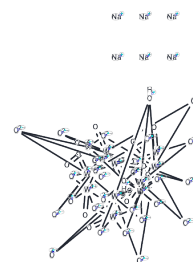


Sodium metatungstate

Chemical Properties

CAS No. :	12141-67-2
Formula:	H ₂ Na ₆ O ₄₀ W ₁₂
Molecular Weight:	2985.99
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sodium metatungstate (Sodium polyoxotungstate) is a potent inhibitor of ecto-nucleoside triphosphate diphosphohydrolase (NTPDase), with K _i values of 2.58 μM for NTPDase 1, 3.26 μM for NTPDase 3, and 28.8 μM for NTPDase 2.
Targets(IC ₅₀)	Phosphatase

Solubility Information

Solubility	DMSO: 48 mg/mL (16.07 mM), Sonication is recommended. H ₂ O: 48 mg/mL (16.07 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	0.3349 mL	1.6745 mL	3.349 mL
5 mM	0.067 mL	0.3349 mL	0.6698 mL
10 mM	0.0335 mL	0.1674 mL	0.3349 mL
50 mM	0.0067 mL	0.0335 mL	0.067 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.

Reference

- Müller CE, et al. Polyoxometalates--a new class of potent ecto-nucleoside triphosphate diphosphohydrolase (NTPDase) inhibitors. *Bioorg Med Chem Lett*. 2006 Dec 1;16(23):5943-7.
- Luo C, Liu X, Liu Y, et al. Upregulation of CD39 During Gout Attacks Promotes Spontaneous Remission of Acute Gouty Inflammation. *Inflammation*. 2023: 1-14.
- Wall et al. The novel NTPDase inhibitor sodium polyoxotungstate (POM-1) inhibits ATP breakdown but also blocks central synaptic transmission, an action independent of NTPDase inhibition. *Neuropharmacology*. 2008 Dec;55(7):1251-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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