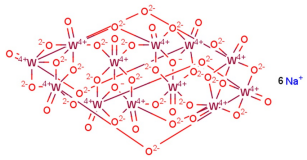
Data Sheet (Cat.No.T12519)

TargetMol
A DRUG SCREENING EXPERT

Sodium metatungstate

Chemical Properties



CAS No.:	12141-67-2
Formula:	H2Na6O40W12
Molecular Weight:	2986.01
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Sodium metatungstate is a potent inhibitor of ecto-nucleoside triphosphate diphosphohydrolase (NTPDase)(Ki values of 2.58 μM, 3.26 μM, and 28.8 μM for NTPDase 1, NTPDase 3 and NTPDase 2 respectively).
Targets(IC_{50})	NTPDase 1: ki:2.58 μM NTPDase 3: 3.26 μM (ki) NTPDase 2(ki): 28.8 μM (ki)

Solubility Information

Solubility	H2O: 50 mg/mL (16.74 mM) DMSO: 50 mg/mL (16.74 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.335 mL	1.674 mL	3.349 mL
5 mM	0.067 mL	0.335 mL	0.67 mL
10 mM	0.033 mL	0.167 mL	0.335 mL
50 mM	0.007 mL	0.033 mL	0.067 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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.

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