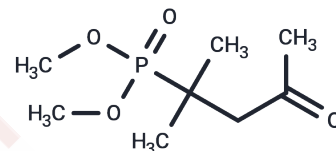


Dimephosphon

Chemical Properties

CAS No. :	14394-26-4
Formula:	C ₈ H ₁₇ O ₄ P
Molecular Weight:	208.19
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	Dimephosphon is an anti-inflammatory agent exhibiting both antihistamine and antiserotonin activities. It aids in maintaining spinal cord conduction function and reduces the excitability of motor neurons around lesion areas. Additionally, Dimephosphon directly stimulates lymph vessel movement, enhancing lymph circulation. This compound is useful for studying inflammatory edema, acute spinal cord injuries, and lymphatic circulation disorders.
Targets(IC50)	Histamine Receptor, Serotonin Transporter
In vivo	Dimephosphin exhibits antihistamine and antiserotonin activities in paw edema models induced by injection of inflammatory mediators and modulators. The use of Dimephosphin (2.5% Dimephosphin solution, 1 mL, once daily for 10 days) has been shown to aid in the recovery of spinal conduction function in hybrid dogs with spinal injuries, potentially due to its anti-edema, vasoprotective properties, and reduction of neuronal over-excitability. Additionally, a single intraperitoneal dose of Dimephosphin (50 mg/kg) has been found to enhance lymphatic circulation in rats by directly stimulating the contraction of lymphatic vessels (targeting the muscle cells of the vessel wall and valves).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8033 mL	24.0165 mL	48.033 mL
5 mM	0.9607 mL	4.8033 mL	9.6066 mL
10 mM	0.4803 mL	2.4017 mL	4.8033 mL
50 mM	0.0961 mL	0.4803 mL	0.9607 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481