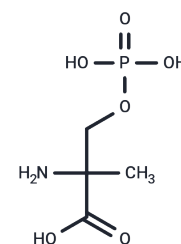


MSOP

Chemical Properties

CAS No. :	66515-29-5
Formula:	C ₄ H ₁₀ NO ₆ P
Molecular Weight:	199.1
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	MSOP is a selective antagonist of group III metabotropic glutamate receptor (KD of 51 μM for the L-AP4-sensitive presynaptic mGluR).
Targets(IC50)	GluR
In vivo	Intrathecal TBOA (10 μg) reduces the number of formalin-induced flinches and shakes by 47% of the value in the saline-treated group in the second phase (P<0.001) and blocked the CFA-induced decrease in ipsilateral paw withdrawal latency by 60% of the value in the saline-treated group (P=0.01).?The number of formalin-induced flinches in the second phase in the group treated with MSOP and TBOA is increased by 56% (P=0.04) of the value in the TBOA-treated group.?CFA-induced paw withdrawal latency in the group treated with MSOP and TBOA is decreased by 86% (P=0.03) of the value in the TBOA-treated group.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0226 mL	25.113 mL	50.226 mL
5 mM	1.0045 mL	5.0226 mL	10.0452 mL
10 mM	0.5023 mL	2.5113 mL	5.0226 mL
50 mM	0.1005 mL	0.5023 mL	1.0045 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

Myron Yaster, et al. Effect of inhibition of spinal cord glutamate transporters on inflammatory pain induced by formalin and complete Freund's adjuvant. *Anesthesiology*. 2011 Feb; 114(2): 412-423.

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