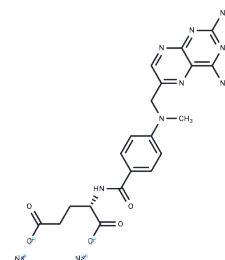


## Methotrexate disodium

### Chemical Properties

CAS No. :	7413-34-5
Formula:	C <sub>20</sub> H <sub>20</sub> N <sub>8</sub> Na <sub>2</sub> O <sub>5</sub>
Molecular Weight:	498.4
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	Methotrexate disodium is an tetrahydrofolate dehydrogenase inhibitor
Targets(IC50)	Apoptosis,Antifolate,Antibacterial,ADC Cytotoxin,Dehydrogenase,DNA/RNA Synthesis

### Solubility Information

Solubility	DMSO: Slightly soluble, H <sub>2</sub> O: 250 mg/mL (501.61 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	2.0064 mL	10.0321 mL	20.0642 mL
5 mM	0.4013 mL	2.0064 mL	4.0128 mL
10 mM	0.2006 mL	1.0032 mL	2.0064 mL
50 mM	0.0401 mL	0.2006 mL	0.4013 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

Yang W , Xia Y , Fang Y , et al. Selective Cell Penetrating Peptide-Functionalized Polymersomes Mediate Efficient and Targeted Delivery of Methotrexate Disodium to Human Lung Cancer In Vivo[J]. Advanced Healthcare Materials, 2017:1701135.

Yang W , Zou Y , Meng F , et al. Efficient and Targeted Suppression of Human Lung Tumor Xenografts in Mice with Methotrexate Sodium Encapsulated in All-Function-in-One Chimeric Polymersomes[J]. Advanced Materials, 2016, 28(37):8234-8239.

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