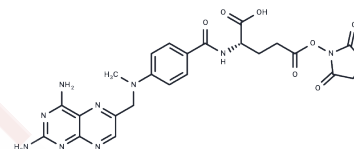


## Aminopterin N-hydroxysuccinimide ester

## Chemical Properties

CAS No. :	98457-88-6
Formula:	C <sub>24</sub> H <sub>25</sub> N <sub>9</sub> O <sub>7</sub>
Molecular Weight:	551.52
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	Aminopterin N-hydroxysuccinimide ester is an antineoplastic agent with immunosuppressive properties. Aminopterin works as an enzyme inhibitor by competing for the folate binding site of the enzyme dihydrofolate reductase. Its binding affinity for dihydrofolate reductase effectively blocks tetrahydrofolate synthesis.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8132 mL	9.0659 mL	18.1317 mL
5 mM	0.3626 mL	1.8132 mL	3.6263 mL
10 mM	0.1813 mL	0.9066 mL	1.8132 mL
50 mM	0.0363 mL	0.1813 mL	0.3626 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

Chiao JH, Roy K, Tolner B, Yang CH, Sirotnak FM. RFC-1 gene expression regulates folate absorption in mouse small intestine. J Biol Chem. 1997 Apr 25;272(17):11165-70. PubMed PMID: 9111015.

Yang CH, Sirotnak FM, Mines LS. Further studies on a novel class of genetic variants of the L1210 cell with increased folate analogue transport inward. Transport properties of a new variant, evidence for increased levels of a specific transport protein, and its partial characterization following affinity labeling. J Biol Chem. 1988 Jul 15; 263(20):9703-9. PubMed PMID: 2838477.

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