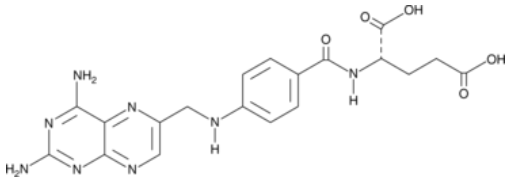
Product Data Sheet

Product Name: Aminopterin
Cat. No.: GC42789

Chemical Properties

Cas. No.	54-62-6		
SMILES	NC1=NC2=NC=C(CNC3=CC=C(C(N[C@H](C(O)=O)CCC(O)=O)=O)C=C3)N=C2C(N)=N1		
Formula	C19H20N8O5	M.Wt	440.4
Solubility	DMSO : 14.71 mg/mL (33.40 mM; Need ultrasonic); H_2O : 5 mg/mL (11.35 mM; ultrasonic and adjust pH to 8 with NaOH)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

Aminopterin is a synthetic folic acid derivative whose metabolite is a competitive inhibitor of dihydrofolate reductase, which is a cofactor for nucleic acid synthesis. Aminopterin has anticancer and immunosuppressive properties. Formulations containing it have been used for pediatric leukemia though methotrexate is now more commonly used due to a more favorable therapeutic index. Aminopterin is a component of the widely used HAT (hypoxanthine-aminopterin-thymidine) medium to select cells for mammalian cell culture.

Caution: Product has not been fully validated for medical applications. For research use only.
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