

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(CN[C@H](C(O)=O)CCC(O)=O)=O)C=C3)N=C2C(N)=N1

Formula C₁₉H₂₀N₈O₅ M.Wt 440.4

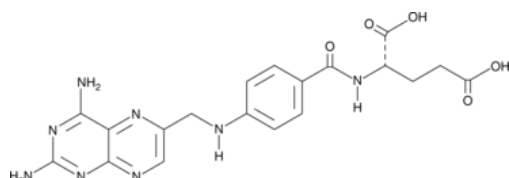
Solubility DMSO : 14.71 mg/mL (33.40 mM; Need ultrasonic); H₂O : 5 mg/mL (11.35 mM; ultrasonic and adjust pH to 8 with NaOH)

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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