



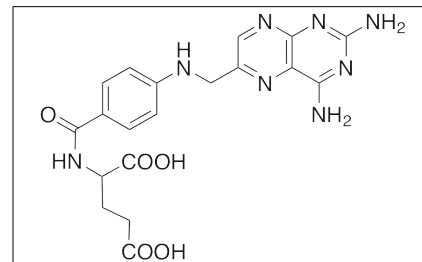
LKT Laboratories, Inc.

Aminopterin

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Product Information

Product ID A5001
CAS No. 54-62-6
Chemical Name N-[4-[[[(2,4-Diamino-6-pteridiny)l)methyl]amino]benzoyl]-L-glutamic acid
Synonym 4-Aminofolic acid
Formula C₁₉H₂₀N₈O₅
Formula Wt. 440.41
Melting Point 230-235° C (dec)
Purity ≥95%
Solubility Soluble in DMSO or 2 N NaOH (50mg/mL).



Bulk quantities available upon request

Product ID	Size
A5001	25 mg
A5001	100 mg
A5001	500 mg

Store Temp Ambient

Ship Temp Ambient

Description Aminopterin is a folic acid analog and derivative of pterin; it is very similar to methotrexate in structure. Aminopterin exhibits anticancer chemotherapeutic and immunosuppressive activities. Like other folic acid analogs, aminopterin inhibits dihydrofolate reductase, depleting nucleotide pools and inhibiting synthesis of DNA and RNA. Aminopterin was one of the first compounds to successfully induce remission in childhood leukemia and was clinically used to treat rheumatoid arthritis, but has since been replaced by methotrexate.

References Visentin M, Zhao R, Goldman ID. The antifolates. *Hematol Oncol Clin North Am.* 2012 Jun;26(3):629-48. PMID: 22520983.

McGuire JJ. Anticancer antifolates: current status and future directions. *Curr Pharm Des.* 2003;9(31):2593-613. PMID: 14529544.

Baggott JE, Morgan SL, Ha TS, et al. Antifolates in rheumatoid arthritis: a hypothetical mechanism of action. *Clin Exp Rheumatol.* 1993 Mar-Apr;11 Suppl 8:S101-5. PMID: 8324932.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.