



LKT Laboratories, Inc.

Methotrexate Hydrate

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID M1676
CAS No. 6745-93-3
Chemical Name N-[4-[[[2,4-Diamino-6-pteridynyl)methyl]methyl- amino]benzoyl]-L-glutamic acid

Synonym L-(+)-Amethopterin Dihydrate, Amethopterin, MTX, Emtexate, Ledertrexate, Rheumatrex

Formula $C_{20}H_{22}N_8O_5 \cdot H_2O$

Formula Wt. 472.45

Melting Point 185-204°C(dec.)

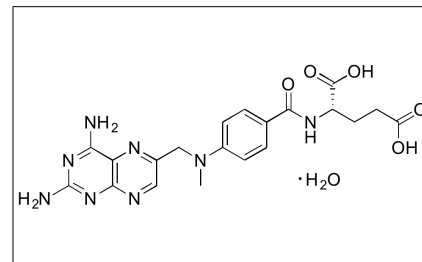
Purity ≥98%

Solubility Not soluble in water or ethanol. Soluble in dilute HCl and in alkaline soln.

Store Temp -20°C

Ship Temp Ambient

Description Methotrexate is an antimetabolite that exhibits immunosuppressive, abortifacient, anti-inflammatory, and anticancer chemotherapeutic activities. Methotrexate is clinically used to treat various cancers, ectopic pregnancy, and rheumatoid arthritis. Methotrexate inhibits dihydrofolate reductase, preventing thymidine, DNA, and RNA synthesis. In vivo, methotrexate increases T cell apoptosis, decreases T cell activation, and suppresses cytokine production. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M1676	10 mg	\$46.50
M1676	50 mg	\$81.60
M1676	100 mg	\$115.80
M1676	500 mg	\$540.20

References Herfarth HH, Long MD, Isaacs KL. Methotrexate: underused and ignored? Dig Dis. 2012;30 Suppl 3:112-8. doi: 10.1159/000342735. PMID: 23295701.

Mol F, Mol BW, Ankum WM, et al. Current evidence on surgery, systemic methotrexate and expectant management in the treatment of tubal ectopic pregnancy: a systematic review and meta-analysis. Hum Reprod Update. 2008 Jul-Aug;14(4):309-19. PMID: 18522946.

Wessels JA, Huizinga TW, Guchelaar HJ. Recent insights in the pharmacological actions of methotrexate in the treatment of rheumatoid arthritis. Rheumatology (Oxford). 2008 Mar;47(3):249-55. PMID: 18045808.

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