



LKT Laboratories, Inc.

Fludarabine Phosphate

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

Product Information

Product ID F4782

CAS No. 75607-67-9

Chemical Name

Synonym F-ara-A

Formula $C_{10}H_{13}FN_5O_7P$

Formula Wt. 365.21

Melting Point

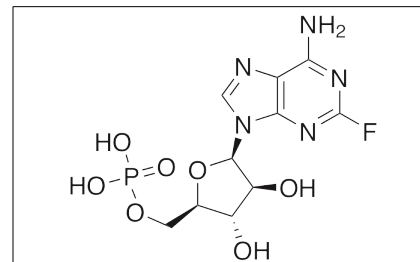
Purity $\geq 98\%$

Solubility Slightly soluble in water (6 mg/mL). Soluble in DMSO (70 mg/mL)

Store Temp Ambient

Ship Temp Ambient

Description Fludarabine is a purine nucleoside analog of adenosine that exhibits anti-inflammatory, immunosuppressive, and anticancer chemotherapeutic activities. Fludarabine is clinically used to treat acute myelogenous leukemia (AML), chronic lymphocytic leukemia (CLL), and other lymphoid malignancies. Fludarabine is also used to prevent graft-versus-host disease (GVHD) during hematopoietic stem cell transplantation. Fludarabine is incorporated into DNA and RNA, inhibiting ribonucleotide reductase, DNA polymerase, DNA ligase, and DNA primase, preventing DNA repair and synthesis. In Jurkat T cells, fludarabine inhibits TNF- α -stimulated production of IL-2 and IFN- γ and degradation of I κ B kinase, inhibiting activity of NF- κ B. In other in vitro models, fludarabine induces apoptosis and inhibits cell growth. Additionally, this compound binds and activates A1 adenosine receptors. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F4782	5 mg	\$52.50
F4782	10 mg	\$74.90
F4782	25 mg	\$180.00
F4782	100 mg	\$479.40

References Robak P and Robak T. Older and new purine nucleoside analogs for patients with acute leukemias. Cancer Treat Rev. 2013 Dec;39(8):851-61. PMID: 23566572.

Jensen K, Johnson LA, Jacobson PA, et al. Cytotoxic purine nucleoside analogues bind to A1, A2A, and A3 adenosine receptors. Naunyn Schmiedeberg Arch Pharmacol. 2012 May;385(5):519-25. PMID: 22249336.

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Catapano CV, Perrino FW, Fernandes DJ. Primer RNA chain termination induced by 9-beta-D-arabinofuranosyl-2-fluoroadenine 5'-triphosphate. A mechanism of DNA synthesis inhibition. J Biol Chem. 1993 Apr 5;268(10):7179-85. PMID: 7681821.

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