



LKT Laboratories, Inc.

Cladribine

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Product Information

Product ID C4402

CAS No. 4291-63-8

Chemical Name

Synonym 2-CdA, 2-Chlorodeoxyadenosine

Formula $C_{10}H_{12}ClN_5O_3$

Formula Wt. 285.69

Melting Point 210-220C

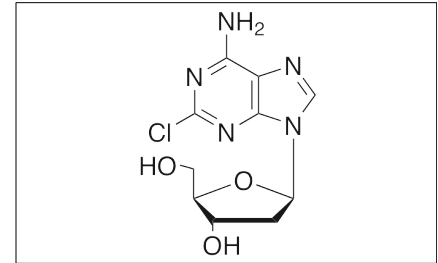
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Cladribine is a deoxyadenosine analog that exhibits immunosuppressive and anticancer chemotherapeutic activities. Cladribine is used clinically to treat hairy cell leukemia and has shown mixed results as a potential treatment for multiple sclerosis. Cladribine induces apoptosis in monocyte-derived dendritic cells. Across many cellular models, this compound decreases levels of circulating B and T lymphocytes and inhibits growth of both proliferating and quiescent cells. As a nucleoside analog, cladribine inhibits DNA polymerase and ribonucleotide reductase, suppressing DNA repair and synthesis.



Bulk quantities available upon request

Product ID	Size
C4402	5 mg
C4402	10 mg
C4402	25 mg

References Singh V, Prajeeth CK, Gudi V, et al. 2-Chlorodeoxyadenosine (cladribine) induces apoptosis in human monocyte-derived dendritic cells. *Clin Exp Immunol.* 2013 Aug;173(2):288-97. PMID: 23607690.

Comi G, Hartung HP, Kurukulasuriya NC, et al. Cladribine tablets for the treatment of relapsing-remitting multiple sclerosis. *Expert Opin Pharmacother.* 2013 Jan;14(1):123-36. PMID: 23256518.

Leist TP, Weissert R. Cladribine: mode of action and implications for treatment of multiple sclerosis. *Clin Neuropharmacol.* 2011 Jan-Feb;34(1):28-35. PMID: 21242742.

Robak T, Korycka A, Robak E. Older and new formulations of cladribine. Pharmacology and clinical efficacy in hematological malignancies. *Recent Pat Anticancer Drug Discov.* 2006 Jan;1(1):23-38. PMID: 18221024.

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