



LKT Laboratories, Inc.

Dasatinib

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Product Information

Product ID D023721

CAS No. 302962-49-8

Chemical Name

Synonym BMS354825, BMS-354825, Sprycel

Formula $C_{22}H_{26}ClN_7O_2S$

Formula Wt. 488.01

Melting Point

Purity $\geq 98\%$

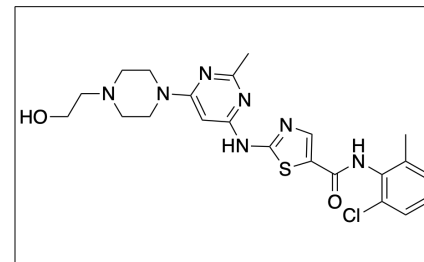
Solubility

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description

Dasatinib is an anticancer chemotherapeutic compound that inhibits Abl, PDGFR, ephrin receptors, Src, c-Kit, and other Src-family kinases (LCK, HCK, FYN, and others). Dasatinib is clinically used to treat chronic myelogenous leukemia (CML) and acute lymphocytic leukemia (ALL); in acute myelogenous leukemia (AML) cells, dasatinib induces myeloid differentiation and autophagy. Dasatinib also displays antiviral activity, preventing dengue virus infection through its inhibition of FYN kinase.



Product ID Size

D023721 25 mg

D023721 100 mg

D023721 250 mg

References Xie N, Zhong L, Liu L, et al. Autophagy contributes to dasatinib-induced myeloid differentiation of human acute myeloid leukemia cells. *Biochem Pharmacol.* 2014 May 1;89(1):74-85. PMID: 24607273.

de Wispelaere M, LaCroix AJ, Yang PL. The small molecules AZD0530 and dasatinib inhibit dengue virus RNA replication via Fyn kinase. *J Virol.* 2013 Jul;87(13):7367-81. PMID: 23616652.

Montero JC, Seoane S, Ocaña A, et al. Inhibition of SRC family kinases and receptor tyrosine kinases by dasatinib: possible combinations in solid tumors. *Clin Cancer Res.* 2011 Sep 1;17(17):5546-52. PMID: 21670084.

Das J, Chen P, Norris D, et al. 2-aminothiazole as a novel kinase inhibitor template. Structure-activity relationship studies toward the discovery of N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-1,3-thiazole-5-carboxamide (dasatinib, BMS-354825) as a potent pan-Src kinase inhibitor. *J Med Chem.* 2006 Nov 16;49(23):6819-32. PMID: 17154512.

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