



Product Information

Product ID D0375

CAS No. 863127-77-9

Chemical Name N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-5-thiazole carboxamide monohydrate

Synonym

Formula C₂₂H₂₆ClN₇O₂S • H₂O

Formula Wt. 506.02

Melting Point 280-286°C

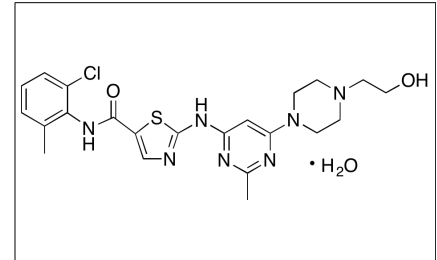
Purity ≥98%

Solubility Sparingly soluble in water (5.06 mg/ml), and ethanol. Soluble in DMSO (200 mg/ml).

Store Temp Ambient

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.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D0375	10 mg	\$97.30
D0375	25 mg	\$148.70
D0375	100 mg	\$449.50
D0375	500 mg	\$1423.40

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.