



# LKT Laboratories, Inc.

## Dasatinib Monohydrate

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### 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** C<sub>22</sub>H<sub>26</sub>ClN<sub>7</sub>O<sub>2</sub>S • H<sub>2</sub>O

**Formula Wt.** 506.02

**Melting Point** 280-286°C

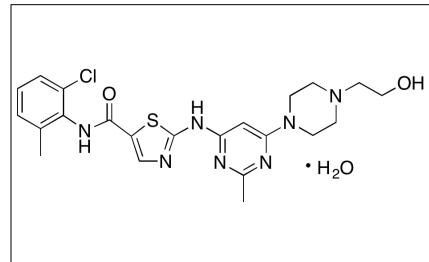
**Purity** ≥98%

**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.



**Bulk quantities available upon request**

**Product ID** **Size**

D0375 10 mg

D0375 25 mg

D0375 100 mg

D0375 500 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.