



LKT Laboratories, Inc.

Imatinib Mesylate

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Product Information

Product ID I4802

CAS No. 220127-57-1

Chemical Name methanesulfonic acid; 4-[(4-methylpiperazin-1-yl)methyl]-N-[4-methyl-3-[(4-pyridin-3-yl)pyrimidin-2-yl)amino]phenyl]benzamide

Synonym

Formula C₂₉H₃₁N₇O • CH₃SO₃H

Formula Wt. 589.718

Melting Point 226C

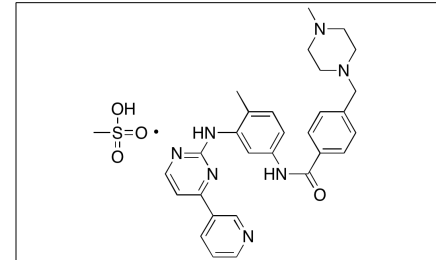
Purity ≥98%

Solubility Ethanol (0.2 mg/ml), DMSO (10 mg/ml), Dimethyl Formamide, PBS (2 mg/mL)

Store Temp Ambient

Ship Temp Ambient

Description Imatinib is an anticancer chemotherapeutic compound that inhibits Abl, c-Kit, and PDGFR; it is used clinically to treat Philadelphia chromosome-positive chronic myelogenous leukemia (CML) and acute lymphocytic leukemia (ALL). In cellular assays, imatinib accelerates erythroblast differentiation and inhibits melanogenesis.



Bulk quantities available upon request

Product ID	Size
I4802	25 mg
I4802	100 mg
I4802	500 mg

References Wang Y, Zhao Y, Liu L, et al. Inhibitory effects of imatinib mesylate on human epidermal melanocytes. *Clin Exp Dermatol.* 2014 Mar;39(2):202-8. PMID: 24479586.

D'allard D, Gay J, Descarpentries C, et al. Tyrosine kinase inhibitors induce down-regulation of c-Kit by targeting the ATP pocket. *PLoS One.* 2013 Apr 23;8(4):e60961. PMID: 23637779.

Gambacorti-Passerini CB, Gunby RH, Piazza R, et al. Molecular mechanisms of resistance to imatinib in Philadelphia-chromosome-positive leukaemias. *Lancet Oncol.* 2003 Feb;4(2):75-85. PMID: 12573349.

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