



Catalog # 10-1060

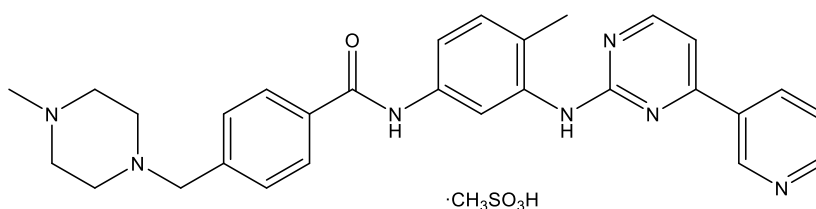
Imatinib Mesylate

CAS# 220127-57-1

4-[(4-Methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]benzamide methanesulfonate

Gleevec

Lot # X102149



Imatinib is a tyrosine kinase inhibitor specific for abl ($IC_{50} = 0.038 \mu M$)¹, PDGF-R ($IC_{50} = 0.3 \mu M$)¹ and c-kit ($IC_{50} = 0.1 \mu M$)². It is a clinically useful anti-cancer drug approved for the treatment of chronic myelogenous leukemia, gastrointestinal stromal tumors as well as several other cancers.

- 1) Buchdunger, et al.(1996) *Inhibition of the Abl Protein-Tyrosine Kinase in Vitro and in Vivo by a 2-Phenylpyrimidine Derivative*; Cancer Res. **56**, 100
- 2) Heinrich et al (2000) *Inhibition of c-kit receptor tyrosine kinase activity by STI 571, a selective tyrosine kinase inhibitor*. Blood **96** 925.

PHYSICAL DATA

Molecular Weight: 589.71
Molecular Formula: C₂₉H₃₁N₇O·CH₃SO₃H
Purity: 98% by TLC
NMR: (Conforms)
Solubility: DMSO (at least 50 mg/ml); Water (at least 50 mg/mL)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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