

Product Name	: Imatinib mesylate
Synonyms	: CGP-57148B; STI-571
Cat No.	: M13511
CAS Number	: 220127-57-1
Molecular Formula	: C ₃₀ H ₃₅ N ₇ O ₄ S
Formula Weight	: 589.71
Chemical Name	: Benzamide, 4-[(4-methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]-, methanesulfonate (1:1)
Description	: An orally bioavailability mesylate salt of Imatinib, which is a multi-kinase inhibitor of v-Abl, c-Kit and PDGFR with IC ₅₀ of 0.6 uM, 0.1 uM and 0.1 uM in cell-free or cell-based assays; inhibits the SLF-dependent activation of wild-type c-kit kinase activity with IC ₅₀ of 0.1 uM; exhibits growth-inhibitory activity on NCI-H727 cell and BON-1 cell with IC ₅₀ of 32.4 and 32.8 uM, respectively; active in vivo. Blood Cancer Approved
Pathway	: Angiogenesis
Target	: Bcr-Abl
Receptor	: c-Kit; PDGFR; v-Abl
Solubility	: DMSO: ≥ 49 mg/mL
SMILES	: <chem>CS(=O)(=O)O.CN1CCN(CC2=CC=C(C(=C2)C(=O)NC2=CC(NC3=NC=CC(=N3)C3=CN=CC=C3)=C(C)C=C2)CC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Yao JC, et al. Clin Cancer Res. 2007, 13(1), 234-240. | 2. Heinrich MC, et al. Blood. 2000, 96(3), 925-932. | 3. Druker BJ, et al. Nat Med. 1996 May;2(5):561-6.