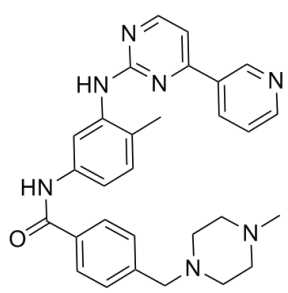


Product Name	: Imatinib	
Synonyms	: STI571;STI 571;STI-571	
Cat No.	: M12129	
CAS Number	: 152459-95-5	
Molecular Formula	: C ₂₉ H ₃₁ N ₇ O	
Formula Weight	: 493.60	
Chemical Name	Benzamide, 4-[(4-methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]-	
Description	An 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: 40 mg/mL	
SMILES	<chem>CC1=C(C=C(C=C1)NC(=O)C2=CC=C(C=C2)CN3CCN(CC3)C)NC4=NC=CC(=N4)C5=CN=CC=C5</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.