

Product Name	: Dasatinib
Synonyms	: BMS-354825;BMS354825;BMS 354825
Cat No.	: M13952
CAS Number	: 302962-49-8
Molecular Formula	: C ₂₂ H ₂₆ ClN ₇ O ₂ S
Formula Weight	: 488.01
Chemical Name	: 5-Thiazolecarboxamide, N-(2-chloro-6-methylphenyl)-2-[[6-[4-(2-hydroxyethyl)-1-piperazinyl]-2-methyl-4-pyrimidinyl]amino]-
Description	A potent, orally bioavailable, dual Src/Abl kinase inhibitor with IC₅₀ of 0.5, 0.4, 0.5 and <1 nM for Src, Lck, Yes and Bcr-Abl, respectively; exhibits two-log increased potency relative to imatinib and retains activity against 14 of 15 imatinib-resistant BCR-ABL mutants; prolongs survival of mice with BCR-ABL-driven disease and inhibits proliferation of BCR-ABL-positive bone marrow progenitor cells from patients with imatinib-sensitive and imatinib-resistant CML. Blood Cancer Approved
Pathway	: Angiogenesis
Target	: Bcr-Abl
Receptor	: Abl;c-Kit(D816V);c-Kit(wt);EphA2;Src
Solubility	: DMSO: 35.35 mg/mL
SMILES	: <chem>CC1=NC(=CC(NC2=NC=C(S2)C(=O)NC2=C(C)C=CC=C2Cl)=N1)N1CCN(CCO)CC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Shah NP, et al. Science. 2004 Jul 16;305(5682):399-401.| 2. Schittenhelm MM, et al. Cancer Res. 2006 Jan 1;66(1):473-81.| 3. Johnson FM, et al. Clin Cancer Res. 2005 Oct 1;11(19 Pt 1):6924-32.| 4. Lombardo LJ, et al. J Med Chem. 2004 Dec 30;47(27):6658-61.