



Dasatinib

Data Sheet

Catalog Number:	MC11075	Product Type:	Small Molecule
Bio-Activity:	Src and Bcr/Abl inhibitor	CAS #:	302962-49-8
Research Categories:	Cell death, immunology, cancer	Chemical Name:	N-(2-chloro-6-methylphenyl)-2-(6-(4-(2-hydroxyethyl)-piperazin-1-yl)-2-methylpyrimidin-4-ylamino) thiazole-5-carboxamide
Solubility:	Soluble in DMSO (up to 200 mg/ml).	Molecular Formula:	C22H26ClN7O2S
Purity:	> 98%	Molecular Weight:	488.0
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Inhibits Src, Bcr/Abl and Lyn tyrosine kinases (IC50= 0.55, 3.0 and 8.5 nM respectively) [1,2]. Suppresses invasion and induces cell cycle arrest and apoptosis of head and neck squamous cell carcinoma and non-small cell lung cancer cells [3].

References:

- 1) Lombardo et al. (2004), Discovery of N-2-chloro-6-methyl-phenyl)-2-(6-(4-(2-hydroxyethyl)-piperazin-1-yl)-2-methylpyrimidin-4-ylamino)thiazole-5-carboxamide (BMS-354825), a dual Src/Abl kinase inhibitor with potent antitumor activity in preclinical assays; J. Med. Chem., 47 6658
- 2) Nam et al. (2005), Action of the Src family kinase inhibitor dasatinib (BMS-354825), on human prostate cancer cells; Cancer Res., 65 9185
- 3) Johnson et al. (2005), Dasatinib (BMS-354825) tyrosine kinase inhibitor suppresses invasion and induces cell cycle arrest and apoptosis of head and neck squamous cell carcinoma and non-small cell lung cancer cells; Clin. Cancer Res., 11 6924

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