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DATASHEET

PP 1

Product overview

Name	PP 1
Cat No	HB1334
Biological action	Inhibitor
Purity	>99%
Description	Potent Src-family tyrosine kinase inhibitor

Biological Data

Biological description	Potent Src-family tyrosine kinase inhibitor. Selective for Lck and Fyn T over EGF-R, JAK2 and ZAP -70 (IC_{50} values are 5 and 6 nM, 0.25, >50 and > 100 µM respectively). Also inhibits Kit, Bcr-Abl, c-Abl and MAP kinase p38. Shows anti-cancer, antiproliferative and apoptotic actions.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in DMSO (10mM) or ethanol (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-(1,1-Dimethylethyl)-1-(4-methylphenyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine
Molecular Weight	281.36
Chemical structure	
Molecular Formula	$C_{16}H_{19}N_5$
CAS Number	172889-26-8
PubChem identifier	1400
SMILES	CC1=CC=C(C=C1)C1=NN(C2=NC=NC(N)=C12)C(C)(C)C
InChiKey	ZVPDNRVYHLRXLX-UHFFFAOYSA-N

References

Discovery of a novel, potent, and Src family-selective tyrosine kinase inhibitor. Study of Lck- and FynT-dependent T cell activation.

Hanke JH *et al* (1996) J Biol Chem 271(2)
PubMedID 8557675

Structural basis for selective inhibition of Src family kinases by PP1.

Liu Y *et al* (1999) Chem Biol 6(9)
PubMedID 10467133

The Src-selective kinase inhibitor PP1 also inhibits Kit and Bcr-Abl tyrosine kinases.

Tatton L *et al* (2003) J Biol Chem 278(7)
PubMedID 12475982

The Src family kinase inhibitors PP2 and PP1 effectively block TGF-beta1-induced cell migration and invasion in both established and primary carcinoma cells.

Bartscht T *et al* (2012) Cancer Chemother Pharmacol 70(2)
PubMedID 22699812