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DATASHEET

PP 2

Product overview

Name	PP 2
Cat No	HB1335
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective Src-family tyrosine kinase inhibitor

Biological Data

Biological description	Potent and selective Src-family tyrosine kinase inhibitor. Selective for Lck and Fyn T over EGF-R, JAK2 and ZAP -70 (IC ₅₀ values are 4 and 5 nM, 0.48, >50 and > 100 μM respectively). Also inhibits CSK, SAPK2a (p38), SAPK2b (p38β2) and CK1δ. Prevents β-adrenergic stimulation of the cardiac pacemaker. Shows anti-proliferative actions against cancer.
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in DMSO (25mM, gentle warming) or ethanol (10mM, gentle warming)
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	3-(4-chlorophenyl)-1-(1,1-dimethylethyl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine
Molecular Weight	301.78
Chemical structure	
Molecular Formula	C ₁₅ H ₁₆ ClN ₅
CAS Number	172889-27-9
PubChem identifier	4878
SMILES	CC(C)(C)N1N=C(C2=C(N)N=CN=C12)C1=CC=C(Cl)C=C1
InChiKey	PBBRWFOVCUAONR-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](#)

The specificities of protein kinase inhibitors: an update.

Bain J *et al* (2003) Biochem J 371(Pt 1)

PubMedID [12534346](#)

PP2 prevents β -adrenergic stimulation of cardiac pacemaker activity.

Huang J *et al* (2014) J Cardiovasc Pharmacol 63(6)

PubMedID [24566462](#)

Src family kinase inhibitor PP2 efficiently inhibits cervical cancer cell proliferation through down-regulating phospho-Src-Y416 and phospho-EGFR-Y1173.

Kong L *et al* (2011) Mol Cell Biochem 348(1-2)

PubMedID [21052789](#)
