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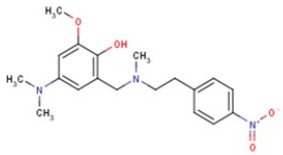
Datasheet (Version 1.0)

Product Name	:	CDC25 Phosphatase Inhibitor I
Synonyms	:	BN-82002;CDC25 Phosphatase Inhibitor I; PTP Inhibitor XX;
Cat No.	:	M19377
CAS Number	:	396073-89-5
Molecular Formula	:	C19H25N3O4
Formula Weight	:	359.42
Chemical Name	:	Phenol, 4-(dimethylamino)-2-methoxy-6-((methyl(2-(4-nitrophenyl)ethyl)amino)methyl)-
Description	:	BN-82002, also known as CDC25 Phosphatase Inhibitor I, is a cell-permeable ortho-hydroxybenzylamino compound that displays anti-tumor properties. BN-82002 acts as a potent, selective, and irreversible inhibitor of CDC25 phosphatase family (IC50 = 2.4, 3.9, 6.3, 5.4, and 4.6 μM for 25A, 25B2, 25B3, 25C, and 25C-cat, respectively). BN82002 inhibits the phosphatase activity of recombinant human CDC25A, B, and C in vitro. It impairs the proliferation of tumoral cell lines and increases cyclin-dependent kinase 1 inhibitory tyrosine phosphorylation. In synchronized HeLa cells, BN82002 delays cell cycle progression at G1-S, in S phase and at the G2-M transition.
Pathway	:	Metabolic Enzyme/Protease
Target	:	Phosphatase
Receptor	:	CDC25A;CDC25B2;CDC25B3;CDC25C;CDC25C-cat
Solubility	:	DMSO : ≥ 150 mg/mL; 417.34 mM
SMILES	:	Oc1c(cc(cc1OC)N(C)C)CN(C)CCc2ccc(cc2)[N+]([O-])=O
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Brezak MC, et al. A novel synthetic inhibitor of CDC25 phosphatases: BN82002. Cancer Res. 2004 May 1;64(9):3320-5.