Product Data Sheet

Product Name: PD 166285 dihydrochloride
Cat. No.: GC50045

Chemical Properties

Cas. No.	212391-63-4		
SMILES	CN(C1=NC(NC4=CC=C(OCCN(CC)CC)C=C4)=NC=C1C=C2C3=C(Cl)C=CC=C3Cl)C2=O.Cl.Cl		
Formula	$C_{26}H_{27}Cl_2N_5O_2.2HCl$	M.Wt	585.35
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PD 166285 dihydrochloride		

Background

Potent inhibitor of the tyrosine kinases c-Src, fibroblast growth factor receptor 1 (FGFR1), and platelet-derived growth factor receptor β (PDGFRβ) (IC50 values are 8.4, 39.3 and 98.3 nM respectively). Also inhibits the checkpoint kinases Wee1 and Myt1; abolishes Cdc2 phosphorylation in numerous tumor cell lines and abrogates the G2 checkpoint.

Panek et al (1997) In vitro pharmacological characterization of PD 166285, a new nanomolar potent and broadly active protein tyrosine kinase inhibitor. J.Pharmacol.Exp.Ther. 283 1433 PMID:9400019 |Wang et al (2001) Radiosensitization of p53 mutant cells by PD0166285, a novel G2 checkpoint abrogator. Cancer Res. 61 8211 PMID:11719452 |Hashimoto et al (2006) Cell cycle regulation by the Wee1 inhibitor PD0166285, Pyrido [2,3-d] pyimidine, in the B16 mouse melanoma cell line. BMC Cancer 6 292 PMID:17177986

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