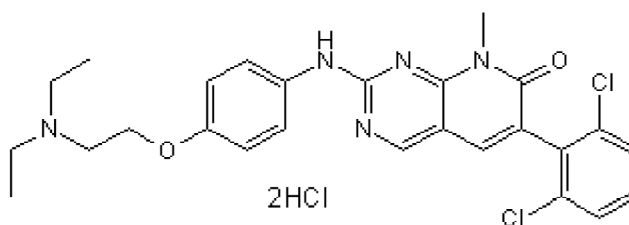


Product Name: PD 166285 dihydrochloride **Catalog No.:** 3785 **Batch No.:** 1
CAS Number: 212391-63-4
IUPAC Name: 6-(2,6-Dichlorophenyl)-2-[[4-[2-(diethylamino)ethoxy]phenyl]amino]-8-methylpyrido[2,3-*d*]pyrimidin-7(8*H*)-one dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇Cl₂N₅O₂·2HCl·1½H₂O
Batch Molecular Weight: 612.37
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.01	5.27	11.44
Found	51.28	5.34	11.33

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

PD 166285 dihydrochloride is a potent inhibitor of the tyrosine kinases c-Src, fibroblast growth factor receptor 1 (FGFR1), and platelet-derived growth factor receptor β (PDGFR β) (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.

Physical and Chemical Properties:

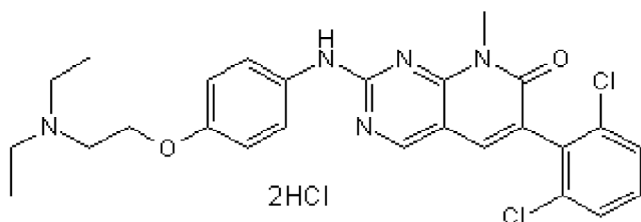
Batch Molecular Formula: C₂₆H₂₇Cl₂N₅O₂·2HCl·1½H₂O

Batch Molecular Weight: 612.37

Physical Appearance: Yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

When purchased as a 1mg unit, this product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Hashimoto *et al* (2006) Cell cycle regulation by the Wee1 inhibitor PD0166285, Pyrido [2,3-*d*] pyrimidine, in the B16 mouse melanoma cell line. *BMC Cancer* **6** 292. PMID: 17177986.

Wang *et al* (2001) Radiosensitization of p53 mutant cells by PD0166285, a novel G₂ checkpoint abrogator. *Cancer Res.* **61** 8211. PMID: 11719452.

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.

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bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel:+1 612 379 2956