

Product Name: PD 161570

Catalog No.: 3724

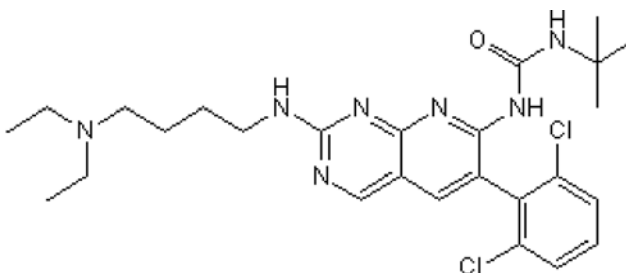
Batch No.: 1

CAS Number: 192705-80-9

IUPAC Name: *N*-[6-(2,6-Dichlorophenyl)-2-[[4-(diethylamino)butyl]amino]pyrido[2,3-*d*]pyrimidin-7-yl]-*N'*-(1,1-dimethylethyl)urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₅Cl₂N₇O
Batch Molecular Weight: 532.51
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.64	6.62	18.41
Found	58.45	6.73	18.25

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

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Description:

PD 161570 is a selective FGFR inhibitor (IC₅₀ values are 40, 262 and 3700 nM for FGFR, PDGFR and EGFR respectively). Inhibits FGFR receptor phosphorylation (IC₅₀ = 622 nM) and growth of A121 cells in vitro.

Physical and Chemical Properties:

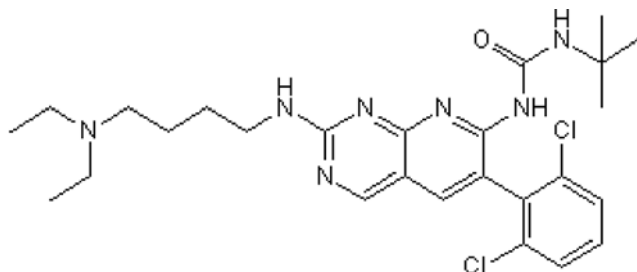
Batch Molecular Formula: C₂₆H₃₅Cl₂N₇O

Batch Molecular Weight: 532.51

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

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. Our standard recommendations are:

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:

Stevens *et al* (2003) Thyroid hormone activates fibroblast growth factor receptor-1 in bone. *Mol.Endocrinology* **17** 1751. PMID: 12805413.

Batley *et al* (1998) Inhibition of FGF-1 receptor tyrosine kinase activity by PD 161570, a new protein-tyrosine kinase inhibitor. *Life Sci.* **62** 143. PMID: 9488112.

Hamby *et al* (1997) Structure-activity relationships for a novel series of pyrido[2,3-*d*]pyrimidine tyrosine kinase inhibitors. *J.Med.Chem.* **40** 2296. PMID: 9240345.

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