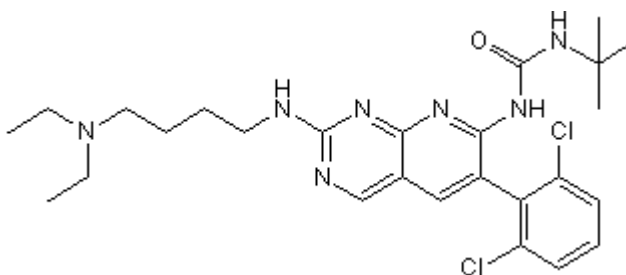


## Certificate of Analysis

**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:** C<sub>26</sub>H<sub>35</sub>Cl<sub>2</sub>N<sub>7</sub>O  
**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 98% purity  
**<sup>1</sup>H 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:**

Selective FGFR inhibitor (IC<sub>50</sub> values are 40, 262 and 3700 nM for FGFR, PDGFR and EGFR respectively). Inhibits FGFR receptor phosphorylation (IC<sub>50</sub> = 622 nM) and growth of A121 cells in vitro.

**Physical and Chemical Properties:**

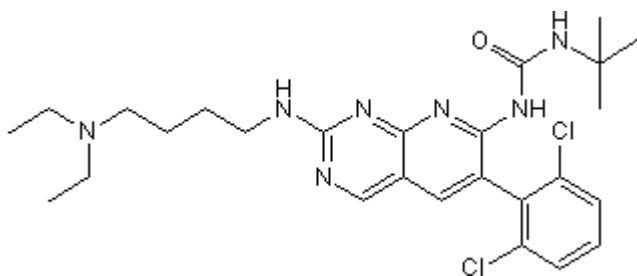
Batch Molecular Formula: C<sub>26</sub>H<sub>35</sub>Cl<sub>2</sub>N<sub>7</sub>O

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.

**References:**

**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.

**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.

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

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