

**Product Name:** PF 184

**Catalog No.:** 4238

**Batch No.:** 2

**CAS Number:** 1187460-81-6

**IUPAC Name:** 8-[[[5-Chloro-2-[3,4-dimethyl-3,4-bis(hydroxymethyl)-1-pyrrolidiny]-4-pyridinyl]carbonyl]amino]-1-(4-fluorophenyl)-4,5-dihydro-1*H*-benz[*g*]indazole-3-carboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

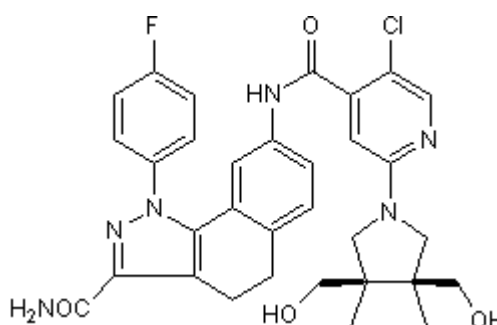
**Batch Molecular Formula:**  $C_{32}H_{32}ClFN_6O_4 \cdot 2\frac{1}{4}H_2O$

**Batch Molecular Weight:** 659.62

**Physical Appearance:** Off-white solid

**Storage:** Store at +4°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:**  $R_f = 0.34$  (Dichloromethane:Methanol [9:1])

**HPLC:** Shows >98.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.27	5.58	12.74
Found	58.36	5.64	12.69

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

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**Description:**

Potent and selective IKK $\beta$  inhibitor (IC<sub>50</sub> = 37 nM). Displays selectivity over 85 other kinases. Inhibits IL-1 $\beta$ -induced TNF- $\alpha$  production in a steroid-insensitive in vitro model of oxidative stress.

**Physical and Chemical Properties:**

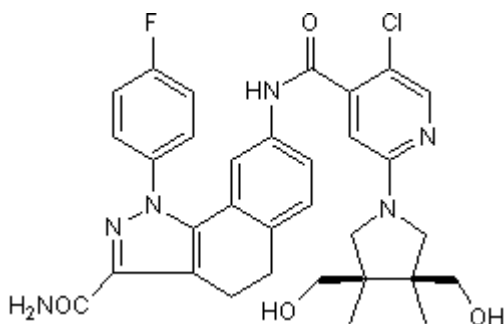
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Batch Molecular Weight: 659.62

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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:**

**Sommers et al (2009)** Novel tight-binding inhibitory factor- $\kappa$ B kinase (IKK-2) inhibitors demonstrate target-specific anti-inflammatory activities in cellular assays and following oral and local delivery in an in vivo model of airway inflammation. *J.Pharmacol.Exp.Ther.* **330** 377. PMID: 19478133.

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