

Product Name: PF 3758309 dihydrochloride

Catalog No.: 6005

Batch No.: 2

IUPAC Name: *N*-[(1*S*)-2-(Dimethylamino)-1-phenylethyl]-4,6-dihydro-6,6-dimethyl-3-[(2-methylthieno[3,2-*d*]pyrimidin-4-yl)amino]pyrrolo[3,4-*c*]pyrazole-5(1*H*)-carboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₀N₈OS.2HCl.3.75H₂O

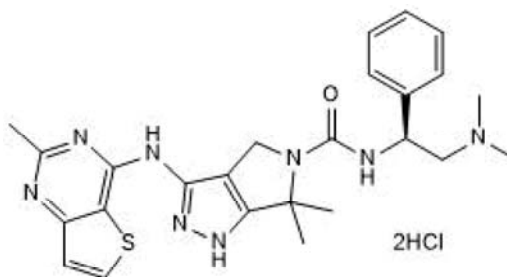
Batch Molecular Weight: 631.11

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.58	6.31	17.76
Found	47.31	6.24	17.52

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

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Description:

Potent PAK4 inhibitor (IC₅₀ = 1.3 nM; K_d = 2.7 nM). Inhibits proliferation and anchorage-independent growth of a panel of tumor cell lines in vitro. Suppresses growth of human HCT116 and A549 tumor cell xenografts in mice. Orally available.

Physical and Chemical Properties:

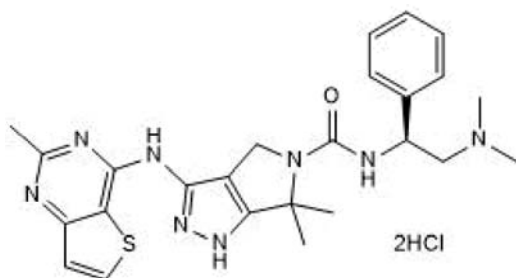
Batch Molecular Formula: C₂₅H₃₀N₈OS.2HCl.3.75H₂O

Batch Molecular Weight: 631.11

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO 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:

Murray et al (2010) Small-molecule p21-activated kinase inhibitor PF-3758309 is a potent inhibitor of oncogenic signaling and tumor growth. *Proc.Natl.Acad.Sci.U.S.A.* **107** 9446. PMID: 20439741.

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