

Product Name: Spautin 1

Catalog No.: 5197

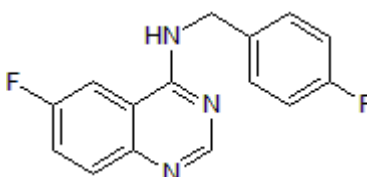
Batch No.: 1

CAS Number: 1262888-28-7

IUPAC Name: 6-Fluoro-*N*-[(4-Fluorophenyl)methyl]-4-quinazolinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₁F₂N₃
Batch Molecular Weight: 271.26
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Chloroform:Methanol [95:5])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	66.42	4.09
Found	66.35	3.98	15.36

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

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Description:

Inhibitor of autophagy; inhibits USP10 and USP13 activity (IC₅₀ values are 0.6 and 0.7 μM respectively) and promotes degradation of Vps34 (class III PI 3-kinase) complexes. Selectively promotes apoptosis of cancer cells under starvation conditions. Prevents the PDGF-induced conversion from the contractile to synthetic phenotype in vascular smooth muscle cells.

Physical and Chemical Properties:

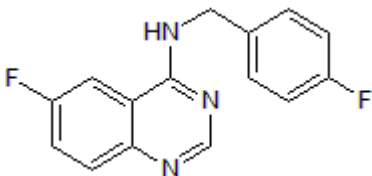
Batch Molecular Formula: C₁₅H₁₁F₂N₃

Batch Molecular Weight: 271.26

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Liu *et al* (2011) Beclin1 controls the levels of p53 by regulating the deubiquitination activity of USP10 and USP13. *Cell* **147** 223. PMID: 21962518.

Salabei *et al* (2013) PDGF-mediated autophagy regulates vascular smooth muscle cell phenotype and resistance to oxidative stress. *Biochem.J.* **451** 375. PMID: 23421427.

Storage: Store at +4°C

Solubility & Usage Info:

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.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

www.RnDSystems.com