



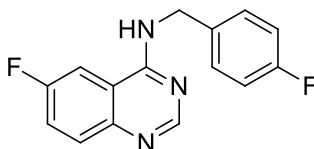
Catalog # 10-1367

Spautin-1

CAS# 1262888-28-7

6-Fluoro-N[(4-fluorophenyl)methyl]-4-quinazolinamine

Lot # L101014



A specific and potent autophagy inhibitor. Spautin-1 promotes the degradation of Vps34 PI3 kinase complexes by inhibiting two ubiquitin-specific proteases USP10 and USP13 which target the Beclin-1 subunit of Vps34 complexes¹. Deranges dengue virion maturation². Inhibits autophagy in a Beclin-1 independent manner in primary epithelial ovarian cancer cells³. Selectively induces cell death of mutant p53-expressing cancer cell lines under confluency⁴. Cell permeable.

- 1) Liu *et al.* (2011), *Beclin1 controls the levels of p53 by regulating the deubiquitination activity of USP10 and USP13*; Cell, **147** 223
- 2) Mateo *et al.* (2013), *Inhibition of cellular autophagy deranges dengue virion maturation*; J. Virol., **87** 1312
- 3) Correa *et al.* (2014), *Combination of AKT inhibition with autophagy blockade effectively reduces ascites-derived ovarian cancer cell viability*; Carcinogenesis, Feb. 22, Epub.
- 4) Vakifahmetoglu-Norburg *et al.* (1987), *Chaperone-mediated autophagy degrades mutant p53*; Genes Dev., **27** 1718

PHYSICAL DATA

Molecular Weight:	271.27
Molecular Formula:	C ₁₅ H ₁₁ F ₂ N ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 15 mg/ml with warming)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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