

Product Name: SRPIN340

Catalog No.: 5063

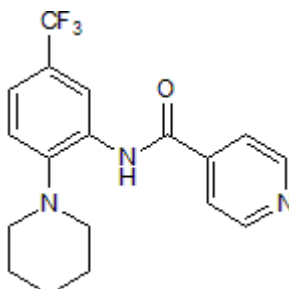
Batch No.: 1

CAS Number: 218156-96-8

IUPAC Name: *N*-[2-(1-Piperidiny)-5-(trifluoromethyl)phenyl]-4-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₈F₃N₃O
Batch Molecular Weight: 349.35
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
 1eq. HCl to 50 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.88	5.19	12.03
Found	61.92	5.08	11.99

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

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Description:

Selective serine arginine protein kinase (SRPK) inhibitor for SRPK1 (K_i value = 0.89 μ M). Also inhibits SRPK2. Does not significantly inhibit other SRPKs such as CLK1 and CLK4, or other classes of SR kinases. Suppresses choroidal neovascularization formation growth. Reduces the expression of proangiogenic VEGF165 without affecting VEGF165b expression. Suppresses RNA virus Sindbis propagation (IC_{50} = 60 μ M in plaque assays in Vero cultures) and HCV-JFH1 replication in Huh7.5.1 cultures.

Physical and Chemical Properties:

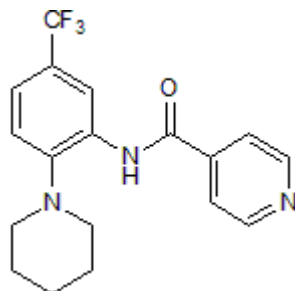
Batch Molecular Formula: C₁₈H₁₈F₃N₃O

Batch Molecular Weight: 349.35

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Fukuhara et al (2006) Utilization of host SR protein kinases and RNA-splicing machinery during viral replication. *Proc.Natl.Acad.Sci.USA* **103** (30) 11329. PMID: 16840555.

Karakama et al (2010) Inhibition of hepatitis C virus replication by a specific inhibitor of serine-arginine-rich protein kinase. *Antimicrob.Agents.Chemother.* **54** (8) 3179. PMID: 20498328.

Gammons et al (2013) SRPK1 inhibition modulates VEGF splicing to reduce pathological neovascularization in a rat model of retinopathy of prematurity. *Invest.Ophthalmol.Vis.Sci.* **54** (8) 5797. PMID: 23761094.

Dong et al (2013) Specific inhibition of serine/arginine-rich protein kinase attenuates choroidal neovascularization. *Mol.Vis.* **19** 536. PMID: 23559848.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 50 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.

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