TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **SRPIN340** **Catalog No.: 5063** **Batch No.: 1**

CAS Number: 218156-96-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{18}F_3N_3O$

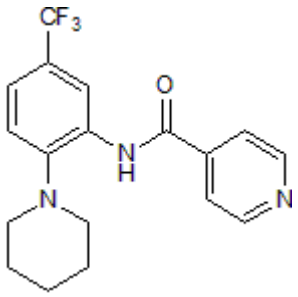
Batch Molecular Weight: 349.35

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

^{1}H 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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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Description:

Selective serine arginine protein kinase (SRPK) 1 inhibitor (K_i = 0.89 µM). Inhibits SRPK2 at higher concentrations. Does not significantly inhibit other SRPKs such as CLK1 and CLK4, or other classes of SR kinases. Down-regulates expression of $VEGF_{165}$ but does not affect $VEGF_{165b}$ expression.

Physical and Chemical Properties:

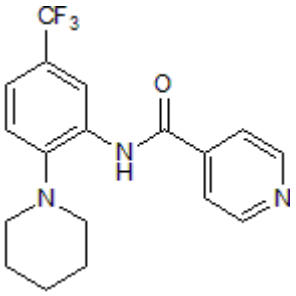
Batch Molecular Formula: $C_{18}H_{18}F_3N_3O$

Batch Molecular Weight: 349.35

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



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.

References:

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

Oltean *et al* (2012) SRPK1 inhibition *in vivo*: modulation of VEGF splicing and potential treatment for multiple diseases. Biochem.Soc.Trans. ***40*** 831. PMID: 22817743.

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*** 5797. PMID: 23761094.

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