

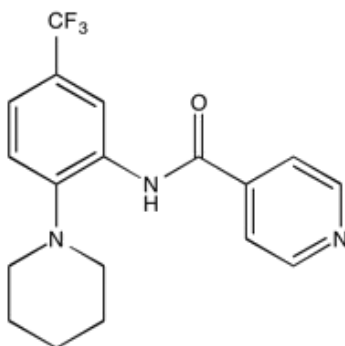
**Catalog # 10-1500**

**SRPIN340**

CAS# 218156-96-8

N-[2-(1-Piperidiny)-5-(trifluoromethyl)phenyl]-4-pyridinecarboxamide

Lot # X106221



Selective serine arginine protein kinase (SRPK) 1 inhibitor ( $K_i = 0.89 \mu\text{M}$ ).<sup>1</sup> Inhibits SRPK2 at higher concentrations. Does not significantly inhibit other SRPKs such as CLK1 and CLK4, or other classes of SR kinases. Inhibits viral replication by inhibition of host SR protein kinases.<sup>1</sup> Modulates VEGF splicing to reduce pathological neovascularization in a rat model of retinopathy<sup>2</sup> and controls VEGF-mediated tumor angiogenesis in xenografts<sup>3</sup>.

- 1) Fukuhara *et al.* (2006), *Utilization of host SR protein kinases and RNA-splicing machinery during viral replication*; Proc. Natl. Acad. Sci. USA, **103** 11329
- 2) 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
- 3) Gammons *et al.* (2014), *Targeting SRPK1 to control VEGF-mediated tumour angiogenesis in metastatic melanoma*; Br. J. Cancer, **111** 477

**PHYSICAL DATA**

Molecular Weight:	349.35
Molecular Formula:	C <sub>18</sub> H <sub>18</sub> F <sub>3</sub> N <sub>3</sub> O
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml), or Ethanol (up to 25 mg/ml)
Physical Description:	White 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 1 month.

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