

SPHINX31, SRPK1 inhibitor

Catalog	Unit
TBI4376-5MG	5 mg
TBI4376-25MG	25 mg

Product Details

Formal Name: 5-Pyridin-4-yl-N-[2-[4-(pyridin-2-ylmethyl)piperazin-1-yl]-5-(trifluoromethyl)phenyl]furan-2-carboxamide

Molecular Formula: C₂₇H₂₄F₃N₅O₂

Formula Weight: 507.5

CAS Number: 1818389-84-2

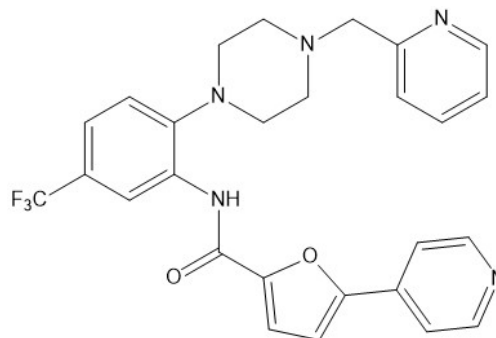
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (15 mg/ml with warming)

Storage: -20°C

Stability: ≥ 2 years.



Applications

SRPK1 inhibitor

Functions

Potent (IC₅₀ = 5.9 nM) and selective inhibitor of serine/arginine-rich protein kinase 1 (SRPK1), a splice factor kinase involved in VEGF-A isoform formation and other alternative splicing events. It displayed antiangiogenic effects in a mouse model of choroidal neovascularization and a rat model of diabetic retinopathy. Exhibited antitumor and synergistic (with cisplatin) effects in extranodal lymphoma cells. It was able to change splicing of programmed cell death receptor 1 (PD-1) to produce a more soluble form that prevented T cell exhaustion in a cancer model. It corrected BIN1, MCL-1, and BCL2 splicing errors in cholangiocarcinoma cells resulting in apoptosis of cancer cells.

Application Procedures

First dissolved in Soluble in DMSO (15 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.