

SPHINX, SRPK1 inhibitor

Catalog	Unit
TBI3044-5MG	5 mg
TBI3044-25MG	25 mg

Product Details

Formal Name: 5-Methyl-N-[2-(4-morpholinyl)-5-(trifluoromethyl)phenyl]-2-furancarboxamide

Molecular Formula: C₁₇H₁₇F₃N₂O₃

Formula Weight: 354.33

CAS Number: 848057-98-7

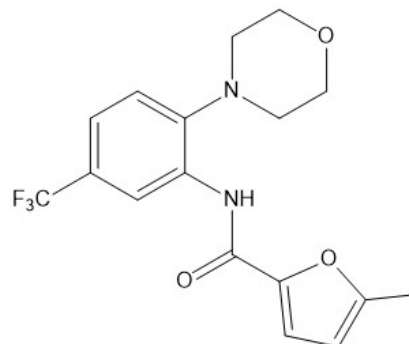
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 2 years



Applications

SRPK1 inhibitor

Functions

Potent inhibitor of SRPK1 (Serine/arginine-rich protein kinase 1), IC₅₀ = 0.88 μM which is selective over SRPK2 (IC₅₀ > 10 μM). SRPK1 is a splice factor kinase which drives the activity of splice factors such as SRSF1. Inhibition of SRPK1 by SPHINX in K561 leukemia and PC3 prostate cancer cell lines reduced cell proliferation, invasion and migration. In combination with azacitidine, SPHINX reduced viability and increased apoptosis in the acute myeloid leukemia cell line Kasumi-1.

Application Procedures

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

For research use only.