

ISX9, Neurogenic differentiation inducer

Catalog	Unit
TBI1357-5MG	5 mg
TBI1357-25MG	25 mg

Product Details

Formal Name: N-cyclopropyl-5-(2-thienyl)-3-isoxazolecarboxamide

Molecular Formula: C₁₁H₁₀N₂O₂S

Formula Weight: 234.28

CAS Number: 832115-62-5

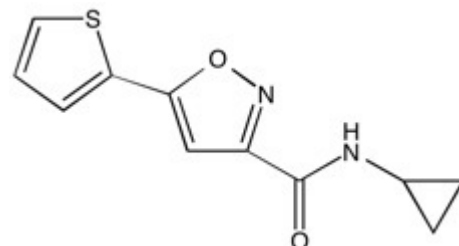
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 60 mg/ml) or in Ethanol (up to 16 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Neurogenic differentiation inducer

Functions

Promotes neurogenesis in vivo enhancing the proliferation and differentiation of hippocampal subgranular zone neuroblasts and enhances memory. Induces robust neuronal differentiation in adult neural stem cells. Increases insulin production by pancreatic β cells. ISX9 blocks malignant astrocyte proliferation, downregulates their astrocyte character, induces reentry into the cell cycle and upregulates neuronal gene expression. Induces sensory neurons from neuroepithelial stem cells. Potentiates cell proliferation and neuronal commitment in the rat dentate gyrus.

Application Procedures

First dissolved in DMSO (up to 60 mg/ml) or in Ethanol (up to 16 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 3 months.

For research use only.