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Produktinformation



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ISX9

Induces neuronal differentiation
Catalog No. SIH-628



Discovery through Partnership | Excellence through Quality

Product Name

ISX9

Description

Induces neuronal differentiation

Purity

>99% (TLC); NMR (Conforms)

CAS No.

832115-62-5

Molecular Formula

$C_{11}H_{10}N_2O_2S$

Molecular Weight

234.3

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

May be dissolved in DMSO (60 mg/ml): or ethanol (16 mg/ml, warm)

Source

Synthetic

Appearance

Tan powder

SMILES

C1CC1NC(=O)C2=NOC(=C2)C3=CC=CS3

InChI

1S/C11H10N2O2S/c14-11(12-7-3-4-7)8-6-9(15-13-8)10-2-1-5-16-10/h1-2,5-7H,3-4H2,(H,12,14)

InChIKey

SYENTKHGMVKGAQ-UHFFFAOYSA-N

Safety Phrases

Classification: Warning

Cite This Product

ISX9 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-628)

Biological Description

Alternative Names

N-Cyclopropyl-5-(2-thienyl)-3-isoxazolecarboxamide; ISX; Isoxazole-9

Research Areas

Calcium Signaling, Neuroscience, Neurotransmission, Stem Cells, Calmodulin, CamK

PubChem ID

19582717

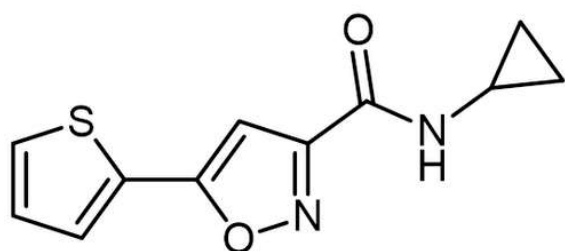
Scientific Background

Promotes neurogenesis in vivo enhancing the proliferation and differentiation of hippocampal subgranular zone neuroblasts and enhances memory (1). Induces robust neuronal differentiation in adult neural stem cells (2). Increases insulin production by pancreatic β cells (3). Blocks malignant astrocyte proliferation, downregulates their astrocyte character, induces reentry into the cell cycle and upregulates neuronal gene expression (4). Induces sensory neurons from neuroepithelial stem cells (5). Potentiates cell proliferation and neuronal commitment in the rat dentate gyrus (6).

References

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1. D Petrick et al. FASEB J. 2012 26:3148
 2. JW Schneider et al. Nat. Chem. Biol. 2008 4:408
 3. EM Dioum et al. Proc. Natl. Acad. Sci. U.S.A. 2011 108:20713
 4. L Zhang et al. Differentiation 2011 81:233
 5. RQ Ali et al. Am. J. Stem Cells 2016 5:19
 6. LE Bettio et al. Neuroscience 2016 332:212
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Product Images



Chemical structure of ISX9 (SIH-628), a Induces neuronal differentiation. CAS #: 832115-62-5. Molecular Formula: C₁₁H₁₀N₂O₂S. Molecular Weight: 234.3 g/mol.

Product Citations

Reviews

There are no reviews yet.