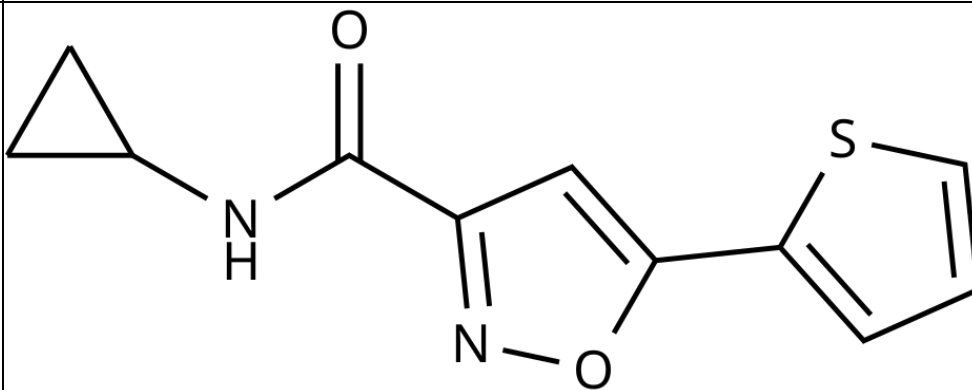


TrailBio® ISX-9 User Instructions

Product Configurations

Catalog Number	Size	Quantity
TB82136	10 mg	1 vial

Product Description

Category	Specification
Product	ISX-9
Synonyms	Isoxazole 9
CAS Number	832115-62-5
MDL Number	MFCD04133937
Formula	C ₁₁ H ₁₀ N ₂ O ₂ S
Molecular Weight	234.27 g/mol
Storage (Solid)	-20 °C for up to 3 years or 4 °C for up to 2 years
Storage (Solution)	-80 °C for up to 2 years or -20 °C for up to 1 year
Shipping	Ambient temperature
Chemical Structure	

Quality & Analytical Specifications

Test Parameter	Specification
Solid Appearance (Color)	Off-white to yellow
Purity	≥98%

Solubility

Solvent	Solubility	Notes
DMSO	≥ 100 mg/ml (426.86 mM)	Soluble at the stated concentration; saturation not determined

Solution Preparation Guide

Amount	1 mM	5 mM	10 mM
1 mg	4.269 ml	0.854 ml	0.427 ml
5 mg	21.343 ml	4.269 ml	2.134 ml
10 mg	42.686 ml	8.537 ml	4.269 ml

Biological Description

ISX-9 is a bioactive isoxazole used to influence developmental cell fate decisions. In responsive cells, it alters calcium-sensitive transcriptional programs involving NeuroD, shifting neural progenitors toward a neuronal identity and supporting their maturation. It can also encourage cardiac-lineage development in activated epicardial progenitors. Researchers can use ISX-9 to investigate neurogenesis, neuronal maturation, and cardiac progenitor differentiation.

Associated Pathways and Applications

Category	Description
Associated Pathways	Calcium-dependent signaling; MEF2/NeuroD-regulated transcription
Applications	Neural differentiation; neurogenesis studies; cardiac progenitor differentiation

Notes

- When using DMSO-based stock solutions, maintain a final DMSO concentration of <0.5% in cell culture applications to minimize potential cellular toxicity, unless a higher concentration has been validated for the specific cell type.
- Avoid repeated freeze-thaw cycles. Prepare single-use aliquots when possible.
- Compound may collect on the vial cap or neck during shipping; centrifuge briefly before opening to bring contents to the bottom.
- Certificate of Analysis (CoA) available upon request. Please contact support@trailbio.com.

Also available from Trailhead Biosystems®

Cells

- TrailBio® Vascular Leptomeningeal Cells (Cat No. EC040003010)
- TrailBio® Hematopoietic Progenitor Cells (Cat No. ME060001020)
- TrailBio® Endothelial Cells (Cat No. ME010101021)

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Small Molecules

- TrailBio® Y-27632 dihydrochloride (Cat No. TB28056)
- TrailBio® Cytarabine (Ara-C) (Cat No. TB47622)
- TrailBio® SB-431542 (Cat No. TB46416)
- TrailBio® LDN-193189 dihydrochloride (Cat No. TB86388)
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