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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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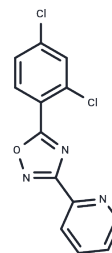
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JY-2

Chemical Properties

CAS No. :	339103-05-8
Formula:	C ₁₃ H ₇ Cl ₂ N ₃ O
Molecular Weight:	292.12
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	JY-2 is an orally active and selective forkhead transcription factor O1 (FoxO1) inhibitor with antidiabetic activity and inhibits FoxO1 transcription. JY-2 can be used to study psoriasis and diabetes.
Targets(IC50)	FOXO1
In vitro	JY-2, at concentrations ranging from 10 to 100 μ M for 24 hours, reduces palmitic acid induced lipotoxicity in HepG2 and INS-1 cells [1].
In vivo	JY-2 exhibits anti-diabetic effects in mice, administered orally at doses of 50-200 mg/kg, either three times over two days or daily for 4 weeks [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (273.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4233 mL	17.1163 mL	34.2325 mL
5 mM	0.6847 mL	3.4233 mL	6.8465 mL
10 mM	0.3423 mL	1.7116 mL	3.4233 mL
50 mM	0.0685 mL	0.3423 mL	0.6847 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Choi HE, et al. Novel FoxO1 inhibitor, JY-2, ameliorates palmitic acid-induced lipotoxicity and gluconeogenesis in a murine model. Eur J Pharmacol. 2021 May 15;899:174011.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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