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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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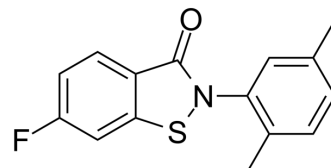
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MLS0315771

Cat. No.:	HY-112945
CAS No.:	727664-91-7
Molecular Formula:	C ₁₅ H ₁₂ FNOS
Molecular Weight:	273.33
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (365.86 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		3.6586 mL	18.2929 mL	36.5858 mL
		5 mM		0.7317 mL	3.6586 mL	7.3172 mL
		10 mM		0.3659 mL	1.8293 mL	3.6586 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (9.15 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (9.15 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	MLS0315771 is a potent and biologically active competitive phosphomannose isomerase (MPI) inhibitor, with an IC ₅₀ ~1 μM and a K _i of 1.4 μM.
IC ₅₀ & Target	IC ₅₀ : ~1 μM (MPI) ^[1] .
In Vitro	MLS0315771 increases mannose flux toward glycosylation. MLS0315771 toxicity at higher concentrations is an off-target effect. MLS0315771 is toxic to the zebrafish embryos above 2 μM. At 8-10 μM, ~50% embryos appear sick within 20 min, and most of them die by 30-60 min ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- PLoS Pathog. 2023 Jul 13;19(7):e1010986.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sharma V, et al. Phosphomannose isomerase inhibitors improve N-glycosylation in selected phosphomannomutase-deficient fibroblasts. J Biol Chem. 2011 Nov 11;286(45):39431-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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