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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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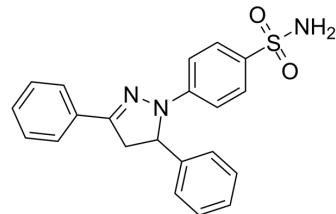
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MLS-573151

Cat. No.:	HY-113849		
CAS No.:	10179-57-4		
Molecular Formula:	C ₂₁ H ₁₉ N ₃ O ₂ S		
Molecular Weight:	377.46		
Target:	Ras		
Pathway:	GPCR/G Protein		
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 (264.93 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.6493 mL	13.2464 mL	26.4929 mL
		5 mM	0.5299 mL	2.6493 mL	5.2986 mL
		10 mM	0.2649 mL	1.3246 mL	2.6493 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 (6.62 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.62 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	MLS-573151 (MLS000573151) is a selective GTPase Cdc42 inhibitor with an EC ₅₀ of 2 μM. MLS-573151 is inactive against other GTPases family members, such as Rab2, Rab7, H-Ras, Rac1, Rac 2 and RhoA wild-type. MLS-573151 acts by blocking the binding of GTP to Cdc42 ^{[1][2]} .
In Vitro	The fluorescence intensities of phagocytosed beads or bacteria in hemocytes, taken as a measure of phagocytosis efficiency, were markedly reduced in granulocytes treated with MLS-573151 (50 μM; for 15 min) compared to that in the control group. MLS-573151 could effectively inhibit the phagocytic ability of granulocytes ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Adv. 2023 May 24;9(21):eadg1778.

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REFERENCES

- [1]. Zurab Surviladze, et al. Identification of a small GTPase inhibitor using a high-throughput flow cytometry bead-based multiplex assay. J Biomol Screen. 2010 Jan;15(1):10-20.
- [2]. Fan Mao, et al. Transcriptomic Evidence Reveals the Molecular Basis for Functional Differentiation of Hemocytes in a Marine Invertebrate, Crassostrea gigas. Front Immunol. 2020 May 27;11:911.

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

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