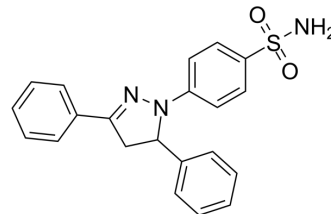


MLS-573151

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)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	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	<ol style="list-style-type: none"> 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 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 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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