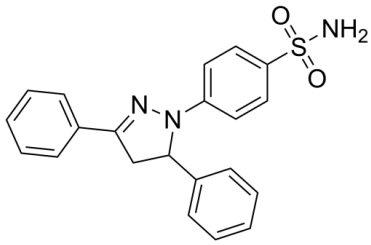
Data Sheet

Product Name:	MLS-573151
Cat. No.:	CS-0062951
CAS No.:	10179-57-4
Molecular Formula:	$C_{21}H_{19}N_3O_2S$
Molecular Weight:	377.46
Target:	Ras
Pathway:	GPCR/G Protein
Solubility:	DMSO : 100 mg/mL (264.93 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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].

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.

CAIndexNames:

Benzenesulfonamide, 4-(4,5-dihydro-3,5-diphenyl-1H-pyrazol-1-yl)-

SMILES:

O=S(C1=CC=C(N2N=C(C3=CC=CC=C3)CC2C4=CC=CC=C4)C=C1)(N)=O

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