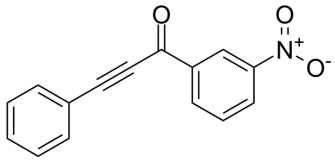
MLS000532223

Cat. No.:	HY-117149
CAS No.:	16616-39-0
Molecular Formula:	$C_{15}H_9NO_3$
Molecular Weight:	251.24
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (199.01 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.9803 mL	19.9013 mL	39.8026 mL
	5 mM	0.7961 mL	3.9803 mL	7.9605 mL
	10 mM	0.3980 mL	1.9901 mL	3.9803 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MLS000532223 is a high affinity, selective inhibitor of Rho family GTPases, with EC_{50} values ranging from 16 μM to 120 μM. MLS000532223 prevents GTP binding to several GTPases[1].

IC_{50} & Target

EC50: 16-120 μM (Rho family GTPases)[1]

In Vitro

MLS000532223 prevents GTP binding to several GTPases in a dose-dependent manner[1].
MLS000532223 modulates Rho-family GTP-binding kinetics[1].
MLS000532223 is active in cell-based assays and inhibits EGF-stimulated Rac 1 activation[1].
MLS000532223 inhibits actin rearrangements and changes in cell morphology that are downstream of Rho family GTPase activation[1].
MLS000532223 (10 μM) modulates actin remodeling in mast cells[1].
MLS000532223 (10 μM) inhibits ligand-stimulated β-hexosaminidase secretion of RBL cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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