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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

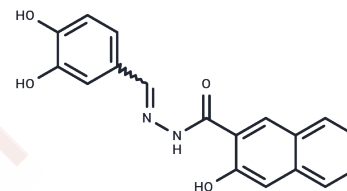
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Dynasore

Chemical Properties

CAS No. :	304448-55-3
Formula:	C ₁₈ H ₁₄ N ₂ O ₄
Molecular Weight:	322.31
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dynasore (Dynamain Inhibitor I), a cell-permeable chemical, can reversibly and non-competitively inhibit GTPase activity of dynamin 1/2 (IC ₅₀ : 15 μM in a cell-free assay). It also inhibits the mitochondrial dynamin Drp1, with no effect against other small GTPase.
Targets(IC ₅₀)	Dynamain, Virus Protease, Autophagy, HSV
In vivo	Dynasore ameliorates the motor dysfunction greatly at 3, 7, and 10 days after SCI in rats. Dynasore markedly enhances motor function which may be through inhibiting the activation of neuronal mitochondrial apoptotic pathway and astrocytic proliferation in rats after SCI[4].
Kinase Assay	RIP1 kinase assay: Phosphorylation of RIP1 requires its kinase activity. Expression constructs of FLAGtagged wild-type (WT) or a kinase-inactive point mutant of RIP1 (K45M) are transfected into 293T cells and RIP1 kinase assay is performed as described in the Methods in the presence of [γ - ³² P]ATP for 30 min at 30°C. Samples are subjected to SDS-PAGE and RIP1 band is visualized by autoradiography. Relative intensities of radioactive bands are quantified and are shown (ratio) in this and all other autoradiographs. In parallel to kinase reactions, a sample of beads is subjected to western blot analysis using anti-RIP1 antibody to ensure equal protein amounts in kinase reactions.
Cell Research	Mouse ventricular myocytes are isolated from male adult C6/Black mouse. Cardiomyocytes subjects to 2 hours of drug treatment followed by oxidative stress (30 μM Water ₂ for 35 min). For ATP supplement experiments, the cells are treated with 3 mM ATP for 30 min before exposure to Water ₂ . Cardiomyocyte survival and viability are analyzed by trypan blue exclusion (TBE) assay[3].

Solubility Information

Solubility	Ethanol: 1.6 mg/mL (5 mM), DMSO: 45 mg/mL (139.62 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1026 mL	15.513 mL	31.026 mL
5 mM	0.6205 mL	3.1026 mL	6.2052 mL
10 mM	0.3103 mL	1.5513 mL	3.1026 mL
50 mM	0.0621 mL	0.3103 mL	0.6205 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Zhao Z, Wei Z, Zheng J, et al. Hepatitis B virus promotes its own replication by enhancing RAB5A-mediated dual activation of endosomal and autophagic vesicle pathways: RAB5A promotes HBV replication. *Emerging Microbes &*

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481