SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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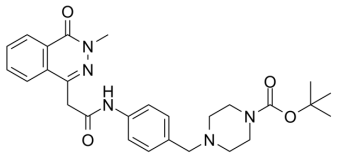
PH-002

Cat. No.:	HY-112798
CAS No.:	1311174-68-1
Molecular Formula:	$C_{27}H_{33}N_5O_4$
Molecular Weight:	491.58
Target:	Others
Pathway:	Others

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 : ≥ 75 mg/mL (152.57 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.0343 mL	10.1713 mL	20.3426 mL
5 mM	0.4069 mL	2.0343 mL	4.0685 mL
10 mM	0.2034 mL	1.0171 mL	2.0343 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.09 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PH-002 is an inhibitor of apolipoprotein (apo) E4 intramolecular domain interaction in neuronal cells that could rescue impairments of mitochondrial motility and neurite outgrowth.

IC_{50} & Target

116 nM (Apo E4 in FRET)[1].

In Vitro

PH-002 is an inhibitor of apolipoprotein (apo) E4 intramolecular domain interaction in neuronal cells, with an IC_{50} of 116 nM in FRET[1].

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

In Vivo	PH-002 is also shown to increase COX1 levels in primary neurons from NSE-apoE4 transgenic mouse cortex and hippocampus. After 4 days of treatment with PH-002 (200 nM), COX1 levels are increased by ~60%. PH-002 (100 nM) increases dendritic spine development in primary neurons from NSE-apoE4 transgenic mice to levels comparable with those in NSE-apoE3 primary neurons (apoE3-expressing primary neurons treated with PH-002 gave results identical to untreated primary neurons)[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	Neuro-2a cells stably expressing apoE3 or apoE4 are seeded at 7500-8000 cells/well on PLlysine-coated 24-well plates containing Opti-MEM with either 0.03% DMSO (control) or DMSO plus compound PH-002 (100 nM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Brodbeck J, et al. Structure-dependent impairment of intracellular apolipoprotein E4 trafficking and its detrimental effects are rescued by small-molecule structure correctors. J Biol Chem. 2011 May 13;286(19):17217-26.

[2]. Chen HK, et al. Small molecule structure correctors abolish detrimental effects of apolipoprotein E4 in cultured neurons. J Biol Chem. 2012 Feb 17;287(8):5253-66.

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