

CP-312

Chemical Properties

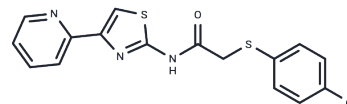
CAS No. : 895470-67-4

Formula: C₁₆H₁₂ClN₃OS₂

Molecular Weight: 361.87

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CP-312 (Cardioprotectant 312) is an antioxidant defense response activator that protects hiPSC-CM viability by acting through induction of heme oxygenase-1 and targeting the antioxidant response network by inducing HMOX1 expression. CP-312 protects human iPSC-derived cardiomyocytes from oxidative stress.
Targets(IC50)	Reactive Oxygen Species, Autophagy
In vitro	CP-312 (10 µM; 2 h) showed good efficacy in protecting hiPSC-CM from acute peroxide-induced cell death, with EC ₅₀ =6.7 µ M.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (124.35 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7634 mL	13.8171 mL	27.6342 mL
5 mM	0.5527 mL	2.7634 mL	5.5268 mL
10 mM	0.2763 mL	1.3817 mL	2.7634 mL
50 mM	0.0553 mL	0.2763 mL	0.5527 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

Kirby RJ, et al. Discovery of Novel Small-Molecule Inducers of Heme Oxygenase-1 That Protect Human iPSC-Derived Cardiomyocytes from Oxidative Stress [published correction appears in J Pharmacol Exp Ther. 2018 Feb;364(2):

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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