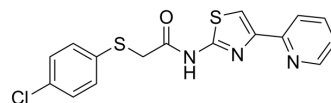


CP-312

Cat. No.:	HY-124815		
CAS No.:	895470-67-4		
Molecular Formula:	C ₁₆ H ₁₂ ClN ₃ OS ₂		
Molecular Weight:	361.87		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (345.43 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

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

BIOLOGICAL ACTIVITY

Description

CP-312 is a potent Heme Oxygenase-1 (HO-1) inducer. CP-312 protects hiPSC-CM viability by targeting the antioxidant response network through induction of HMOX1 expression. CP-312 protects human iPSC-derived cardiomyocytes from oxidative stress^[1].

In Vitro

CP-312 (10 μM; 2 h) exhibits good potency in protecting hiPSC-CMs from acute peroxide-induced cell death with EC₅₀ = 6.7 μM^[1].

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

REFERENCES

[1]. Kirby RJ, et, al. Discovery of Novel Small-Molecule Inducers of Heme Oxygenase-1 That Protect Human iPSC-Derived Cardiomyocytes from Oxidative Stress. J Pharmacol Exp Ther. 2018 Jan;364(1):87-96.

Caution: Product has not been fully validated for medical applications. For research use only.

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