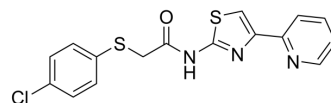


CP-312

| | |
|--------------------|-------------------------------------------------------------------------------------------|
| 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: | Please store the product under the recommended conditions in the Certificate of Analysis. |



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 EC ₅₀ = 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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