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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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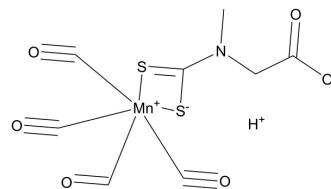
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CORM-401

Cat. No.:	HY-109804
CAS No.:	1001015-18-4
Molecular Formula:	C ₈ H ₆ MnNO ₆ S ₂
Molecular Weight:	331.2
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (75.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	3.0193 mL	15.0966 mL	30.1932 mL	
		5 mM	0.6039 mL	3.0193 mL	6.0386 mL	
		10 mM	0.3019 mL	1.5097 mL	3.0193 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.55 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.55 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	CORM-401 is an oxidant-sensitive CO-releasing molecule. CORM-401 induces NO increase in the regulation of endothelial calcium signalling. CORM-401 reduces TNF-α/CHX and H2O2-induced ROS production. CORM-401 uncouples mitochondrial respiration and inhibits glycolysis ^{[1][2][3]} .
In Vitro	CORM-401 (100 μM; 1h) induces the NO production in endothelial EA.hy926 cells^[1]. ?CORM-401 (30 μM) induces peak-like calcium signal and augments coupling of endoplasmic reticulum and plasmalemmal store-operated calcium channels^[1]. ?CORM-401 (50 μM; 1h) significantly reduces TNF-α/CHX and H2O2-induced ROS production and cell death^[2]. ?CORM-401 (0.5, 1 mM) induces a persistent increase in the oxygen consumption rate in endothelial EA.hy926 cells^[3]. ?CORM-401 (10, 30, 100 μM) induces a concentration-dependent increase in OCR and a simultaneous decrease in ECAR^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Biomater Adv. 2023 Mar 20;149:213393.

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REFERENCES

- [1]. Kaczara P, et al. CORM-401 induces calcium signalling, NO increase and activation of pentose phosphate pathway in endothelial cells. FEBS J. 2018 Apr;285(7):1346-1358.
- [2]. Babu D, et al. Differential Effects of CORM-2 and CORM-401 in Murine Intestinal Epithelial MODE-K Cells under Oxidative Stress. Front Pharmacol. 2017 Feb 8;8:31.
- [3]. Kaczara P, et al. Carbon monoxide released by CORM-401 uncouples mitochondrial respiration and inhibits glycolysis in endothelial cells: A role for mitoBKCa channels. Biochim Biophys Acta. 2015 Oct;1847(10):1297-309.
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Caution: Product has not been fully validated for medical applications. For research use only.

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