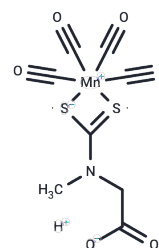


## CORM-401

## Chemical Properties

CAS No. : 1001015-18-4  
 Formula: C<sub>8</sub>H<sub>6</sub>MnNO<sub>6</sub>S<sub>2</sub>  
 Molecular Weight: 331.2  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CORM-401 is an oxidant-sensitive CO-releasing molecule used in the research of oxidative stress-mediated pathologies and inflammation [inflammatory].
Targets(IC50)	Reactive Oxygen Species, Antibiotic, ROS
In vitro	CORM-401 (0.5, 1 mM) induces a sustained increase in the oxygen consumption rate of endothelial EA.hy926 cells; CORM-401 (10, 30, 100 μM) induces a concentration-dependent increase in OCR while reducing ECAR [2]; CORM-401 (50 μM; 1 h) significantly reduces ROS generation and cell death induced by TNF-α/CHX and H <sub>2</sub> O <sub>2</sub> [3]; CORM-401 (10, 30, 100 μM) induces a concentration-dependent increase in OCR, while reducing ECAR, while CORM-401 (100 μM; 1 h) induces NO production in endothelial EA.hy926 cells. In addition, CORM-401 (30 μM) induces peak calcium signals and enhances the coupling of endoplasmic reticulum and plasma membrane storage calcium channels

## Solubility Information

Solubility	DMSO: 15 mg/mL (45.29 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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
50 mM	0.0604 mL	0.3019 mL	0.6039 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- CORM-401, et al. Vascular and angiogenic activities of CORM-401, an oxidant-sensitive CO-releasing molecule. *Biochem Pharmacol.* 2016 Feb 15;102:64-77.
- 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.
- 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.
- 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.

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