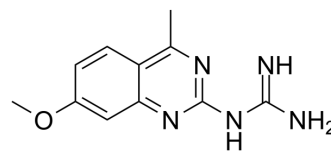


## MPO-IN-28

<b>Cat. No.:</b>	HY-115486		
<b>CAS No.:</b>	37836-90-1		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>13</sub> N <sub>5</sub> O		
<b>Molecular Weight:</b>	231.25		
<b>Target:</b>	Glutathione Peroxidase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.5 mg/mL (54.05 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.3243 mL	21.6216 mL	43.2432 mL
5 mM	0.8649 mL	4.3243 mL	8.6486 mL
10 mM	0.4324 mL	2.1622 mL	4.3243 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (8.99 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

MPO-IN-28 (Compound 28) is a myeloperoxidase (MPO) inhibitor with an IC<sub>50</sub> of 44 nM.

### CUSTOMER VALIDATION

- Research Square Print. September 6th, 2022.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Soubhye J, et al. Discovery of Novel Potent Reversible and Irreversible Myeloperoxidase Inhibitors Using Virtual Screening Procedure. J Med Chem. 2017 Aug 10;60(15):6563-6586.

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

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