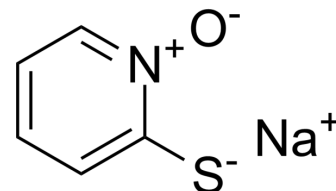


## 2-Mercaptopyridine N-oxide sodium

<b>Cat. No.:</b>	HY-125785A
<b>CAS No.:</b>	3811-73-2
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>4</sub> NNaOS
<b>Molecular Weight:</b>	149.15
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (670.47 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	6.7047 mL	33.5233 mL	67.0466 mL
	5 mM	1.3409 mL	6.7047 mL	13.4093 mL
	10 mM	0.6705 mL	3.3523 mL	6.7047 mL

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

### BIOLOGICAL ACTIVITY

#### Description

2-Mercaptopyridine N-oxide sodium has bactericidal effect and is against a standard strain of Mycobacterium tuberculosis H37Rv (ATCC 27294) with MIC<sub>90</sub> of 7.20 μM. 2-Mercaptopyridine N-oxide sodium and its complex with iron, gallium, and bismuth have good anti-M. tuberculosis activity. 2-Mercaptopyridine N-oxide sodium has potential for the treatment of tuberculosis<sup>[1]</sup>.

### REFERENCES

[1]. Debora L Campos, et al. Bactericidal Effect of pyridine-2-thiol 1-oxide Sodium Salt and Its Complex With Iron Against Resistant Clinical Isolates of Mycobacterium Tuberculosis. J Antibiot (Tokyo). 2020 Feb;73(2):120-124.

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

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