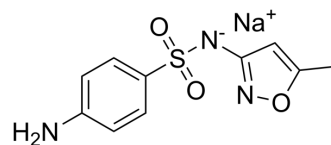


## Sulfamethoxazole sodium

<b>Cat. No.:</b>	HY-B0322A
<b>CAS No.:</b>	4563-84-2
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>10</sub> N <sub>3</sub> NaO <sub>3</sub> S
<b>Molecular Weight:</b>	275.26
<b>Target:</b>	Bacterial; Antibiotic
<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

DMSO : 50 mg/mL (181.65 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.6329 mL	18.1646 mL	36.3293 mL
5 mM	0.7266 mL	3.6329 mL	7.2659 mL
10 mM	0.3633 mL	1.8165 mL	3.6329 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Sulfamethoxazole sodium (Ro 4-2130 sodium) is a sulfonamide bacteriostatic antibiotic<sup>[1]</sup>. Sulfamethoxazole sodium is used to treat various urinary tract pathogens and in combination with Trimethoprim is considered the gold standard in the treatment of urinary tract infections (UTIs)<sup>[2]</sup>.

### CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 Sep 18;8(1):353.
- Nat Commun. 2022 Mar 2;13(1):1116.
- Autophagy. 2023 Jun 13;1-17.
- Water Res. 2023 May 21, 120110.
- Clin Chem. 2019 Dec;65(12):1522-1531.

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

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## REFERENCES

- [1]. Straub JO, et al. Aquatic environmental risk assessment for human use of the old antibiotic sulfamethoxazole in Europe. *Environ Toxicol Chem.* 2016 Apr;35(4):767-79.
- [2]. Choonara BF, et al. A menthol-based solid dispersion technique for enhanced solubility and dissolution of sulfamethoxazole from an oral tablet matrix. *AAPS PharmSciTech.* 2015 Aug;16(4):771-86.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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