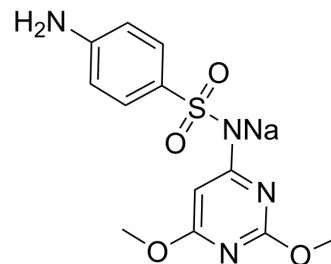


Sulfadimethoxine sodium

Cat. No.:	HY-B0337A
CAS No.:	1037-50-9
Molecular Formula:	C ₁₂ H ₁₃ N ₄ NaO ₄ S
Molecular Weight:	332.31
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	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 : 250 mg/mL (752.31 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.0092 mL</td> <td>15.0462 mL</td> <td>30.0924 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6018 mL</td> <td>3.0092 mL</td> <td>6.0185 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3009 mL</td> <td>1.5046 mL</td> <td>3.0092 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.0092 mL	15.0462 mL	30.0924 mL	5 mM	0.6018 mL	3.0092 mL	6.0185 mL	10 mM	0.3009 mL	1.5046 mL	3.0092 mL
Solvent	Mass			Concentration																		
		1 mg	5 mg	10 mg																		
Preparing Stock Solutions	1 mM	3.0092 mL	15.0462 mL	30.0924 mL																		
	5 mM	0.6018 mL	3.0092 mL	6.0185 mL																		
	10 mM	0.3009 mL	1.5046 mL	3.0092 mL																		
	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Sulfadimethoxine sodium (Sulphadimethoxine sodium) is a sulfonamide antibiotic used to treat many infections ^{[1][2]} .
IC₅₀ & Target	Antibacterial ^[1]

CUSTOMER VALIDATION

-
- Chemosphere. 2019 Jun;225:378-387.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. AGUIRRE M, [Sulfadimethoxine in various infections. Results]. Rev Clin Esp. 1961 Sep 30;82:394-9.

[2]. Guerard JJ, et al. Photochemical fate of sulfadimethoxine in aquaculture waters. Environ Sci Technol. 2009 Nov 15;43(22):8587-92.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA