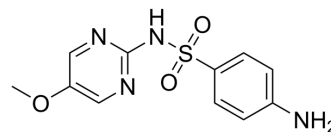


## Sulfameter

<b>Cat. No.:</b>	HY-B0213		
<b>CAS No.:</b>	651-06-9		
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	280.3		
<b>Target:</b>	Bacterial; Antibiotic		
<b>Pathway:</b>	Anti-infection		
<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 : ≥ 100 mg/mL (356.76 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5676 mL	17.8380 mL	35.6761 mL
	5 mM	0.7135 mL	3.5676 mL	7.1352 mL
	10 mM	0.3568 mL	1.7838 mL	3.5676 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: ≥ 2.5 mg/mL (8.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (8.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (8.92 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Sulfameter (Sulfametoxydiazine; 5-Methoxysulfadiazine) is an effective long-acting sulfonamide antibiotic with antibacterial activities. Sulfameter can be used for the research of urinary tract infections and leprosis<sup>[1]</sup>.

### CUSTOMER VALIDATION

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- ACS Omega. 2021 Jan 20.

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

## REFERENCES

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- [1]. Kaumeier S. The effect of the composition of food on the absorption of sulfameter. Int J Clin Pharmacol Biopharm. 1979 Jun;17(6):260-3.
- [2]. Douglas H.Nakahata, et al. Crystal structure, spectroscopic characterization and antibacterial activities of a silver complex with sulfameter. Journal of Molecular Structure. Volume 1125, 5 December 2016, Pages 609-615
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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