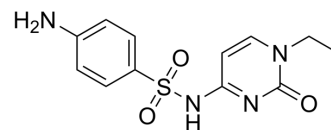


## Sulfacytine

<b>Cat. No.:</b>	HY-16472		
<b>CAS No.:</b>	17784-12-2		
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	294.33		
<b>Target:</b>	Antibiotic; Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (424.69 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3975 mL	16.9877 mL	33.9755 mL
5 mM	0.6795 mL	3.3975 mL	6.7951 mL
10 mM	0.3398 mL	1.6988 mL	3.3975 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Sulfacytine is a short-acting sulfonamide antibiotic. Sulfacytine is active against bacteria and is an effective agent for the research of acute uncomplicated urinary tract infections<sup>[1]</sup>.

#### In Vitro

Sulfacytine is rapidly absorbed and excreted in the urine almost entirely as the unchanged active form<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. J Hughes, et al. Sulfacytine: A New Sulfonamide. Double-blind Comparison With Sulfisoxazole in Acute Uncomplicated Urinary Tract Infections. J Urol. 1975 Dec;114(6):912-4.

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**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](mailto:tech@MedChemExpress.com)

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