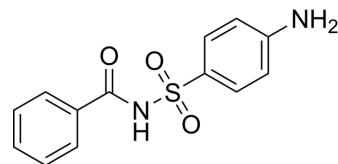


Sulfabenzamide

Cat. No.:	HY-B0960		
CAS No.:	127-71-9		
Molecular Formula:	C ₁₃ H ₁₂ N ₂ O ₃ S		
Molecular Weight:	276.31		
Target:	Autophagy; Bacterial; Antibiotic		
Pathway:	Autophagy; Anti-infection		
Storage:	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 (361.91 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6191 mL	18.0956 mL	36.1912 mL
	5 mM	0.7238 mL	3.6191 mL	7.2382 mL
	10 mM	0.3619 mL	1.8096 mL	3.6191 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 (9.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfabenzamide (N-Sulfanilylbenzamide) is an antimicrobial agent and usually consumed in combination with Sulfathiazole and Sulfacetamide. Sulfabenzamide is effective against Gram-positive and negative bacterial strains^[1].

REFERENCES

[1]. Rostamizadeh S, et, al. Synthesis of sulfamethoxazole and sulfabenzamide metal complexes; evaluation of their antibacterial activity. Eur J Med Chem. 2019 Jun 1;171:364-371.

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

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