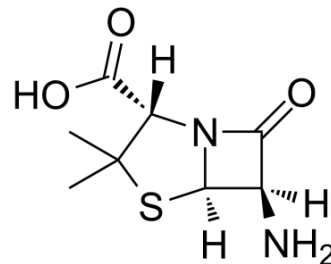


6-Aminopenicillanic acid

Cat. No.:	HY-W013549		
CAS No.:	551-16-6		
Molecular Formula:	C ₈ H ₁₂ N ₂ O ₃ S		
Molecular Weight:	216.26		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

0.1 M HCl : 12.5 mg/mL (57.80 mM; ultrasonic and adjust pH to 2 with HCl)
 0.1 M NaOH : 5 mg/mL (23.12 mM; Need ultrasonic)
 H₂O : 0.33 mg/mL (1.53 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.6241 mL	23.1203 mL	46.2406 mL
	5 mM	0.9248 mL	4.6241 mL	9.2481 mL
	10 mM	0.4624 mL	2.3120 mL	4.6241 mL

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

BIOLOGICAL ACTIVITY

Description

6-Aminopenicillanic acid (6-APA) is an important precursor for the synthesis of β -lactam antibiotics. 6-Aminopenicillanic acid is the main product of Penicillin G (PenG) hydrolyzed by penicillin acylase (PA)^[1].

REFERENCES

[1]. Lucie Vobecká, et al. Optimization of Aqueous Two-Phase Systems for the Production of 6-aminopenicillanic Acid in Integrated Microfluidic Reactors-Separators. N Biotechnol. 2018 Dec 25;47:73-79.

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