

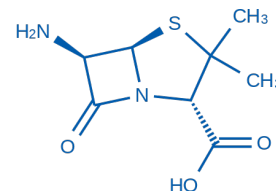
Catalog Number: CM00750

产品信息

Catalog Number:
CM00750CAS号:
551-16-6分子式:
 $C_8H_{12}N_2O_3S$ 主要靶点:
Antibacterial主要通路:
Anti-infection分子量:
216.2575MDL NO:
MFCD00005176Pubchem ID:
11082

溶解度:

DMSO	1 mg/mL
Water	Insoluble
Ethanol	Insoluble



描述

6-APA (6-aminopenicillanic acid), is used to prepare raw materials for semi synthetic penicillin. In the fermentation broth of *P. chrysogenum* it is necessary to distinguish between the primary 6-APA which is a product of the biosynthesis via L-cystine/D-valine and the secondary 6-APA which originates from isopenicillin N^[2]. The overall yield of 6-APA crystals obtained after enzymatic conversion of penicillin G ranged between 37-55 and 47-68% in foreign and local strains, respectively^[3]. Moreover, 6-APA slightly reduced the exogenous acetylcholine-induced contractile response and this effect was a little weaker than it is on the intramural electrical stimulation-induced contractile response^[4]. Combinations of mecillinam and 6-APA with ampicillin acted synergistically against the gram-negative bacilli^[5].

储存

储存条件:

粉末	-20°C	3年
液体	-80°C	1年

运输条件:

Shipped in cold pack

参考文献

- 1 Batchelor FR, Doyle FP, et al. Synthesis of penicillin: 6-aminopenicillanic acid in penicillin fermentations. *Nature*. 1959 Jan 24;183(4656):257-8.
- 2 Bosnic P, Gelineo A, Gajic B. Biogeneza 6-aminopenitsillanovo? kislota (6-APK) i penitsillina u *Penicillium chrysogenum*; éffekt biokatalizatora khrizina [Biogenesis of 6-aminopenicillanic acid (6-APA) and penicillin in *Penicillium chrysogenum*: effect of the biocatalyst chrysin]. *Antibiot Khimioter*. 1994;39(9-10):6-11
- 3 Arshad R, Farooq S, Ali SS. 6-aminopenicillanic acid production by intact cells of *E. coli* containing penicillin G acylase (PGA). *Pak J Biol Sci*. 2007;10(18):3190-3194
- 4 Yoshida M, Koeda T. Effects of aminobenzyl penicillin (AB-PC), methylchlorophenyl isoxazolyl penicillin (MCI-PC) and 6-aminopenicillanic acid (6-APA) on the contractile response of guinea-pig urinary bladder. *Nihon Heikatsukin Gakkai Zasshi*. 1984;20(1):1-12
- 5 Lorian V, Atkinson B. Comparison of the effects of mecillinam and 6-aminopenicillanic acid on *Proteus mirabilis*, *Escherichia coli*, and *Staphylococcus aureus*. *Antimicrob Agents Chemother*. 1977;11(3):541-552