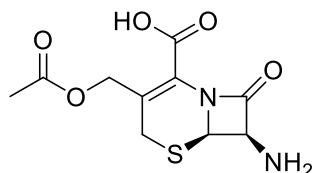


7-Aminocephalosporanic acid

Code No.: **BIA-A2591**

Pack sizes: **1 mg, 5 mg**



Synonyms : 7-ACA, 7-ACS, 7 β -Amino-3-acetoxymethylcephemcarboxylic acid, 7 β -Aminocephalosporanic acid

Specifications

CAS #	: 957-68-6
Molecular Formula	: C ₁₀ H ₁₂ N ₂ O ₅ S
Molecular Weight	: 272.28
Source	: <i>Paenibacillus</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

7-Aminocephalosporanic acid is derived from cephalosporanic acid, used as a key synthetic intermediate for the production of semi-synthetic cephalosporins. 7-Aminocephalosporanic acid itself is used as the scaffold for design and synthesis on new classes of cephalosporins.

References

1. Construction of a 7-Aminocephalosporanic Acid (7ACA) Biosynthetic Operon and Direct Production of 7ACA in *Acremonium Chrysogenum*. Isogai T. et al. *Biotechnology* 1991, 9, 188.
2. Industrial enzymatic production of cephalosporin-based beta-lactams. Barber M.S. et al. *Adv. Biochem. Eng. Biotechnol.* 2004, 88, 179.
3. Design, synthesis and biological activities of some 7-aminocephalosporanic acid derivatives. Basoglu S. et al. *Eur J Med Chem.* 2013, 69, 622.