Amoxicillin sodium (Amox), beta-lactam antibiotic agent ab143227

Overview

Product name Amoxicillin sodium (Amox), beta-lactam antibiotic agent
Description Moderate spectrum β-lactam antibiotic agent
Biological description Moderate spectrum β-lactam antibiotic agent. Inhibits bacterial cell wall biosynthesis by preventing peptidoglycan cross-linking. Shows bacteriocidal effects against gram-positive and gram-negative species in vivo. Orally active.
CAS Number 34642-77-8
Chemical structure

Properties

Chemical name (2S,5R,6R)-6-[[2R]-2-Amino-2-(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate sodium salt
Molecular weight 387.39
Molecular formula C_{16}H_{18}N_{3}NaO_{5}S
PubChem identifier 23663126
Storage instructions Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview Soluble in water to 100 mM
Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES CC1(C(N2C(S(1)C(C2=O)NC(=O)C(C3=CC=C(C=C3)O)N)C(=O)[O-])C.[Na+]}
Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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