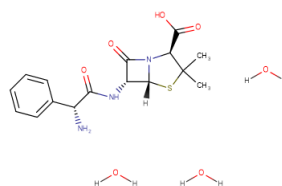


Product Name	: Ampicillin Trihydrate
Synonyms	: Amcill; Aminobenzyl Penicillin; KS-R1; KS R1; KSR1; Omnipen; Pentrexyl; Polycillin; Ukapen
Cat No.	: M15743
CAS Number	: 7177-48-2
Molecular Formula	: C ₁₆ H ₁₉ N ₃ O ₄ S·3H ₂ O
Formula Weight	: 403.45
Chemical Name	: (2S,5R,6R)-6-((R)-2-amino-2-phenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid trihydrate
Description	: Ampicillin Trihydrate is a β-lactam antibiotic, which inhibits bacterial cell-wall synthesis (peptidoglycan cross-linking) by inactivating transpeptidases on the inner surface of the bacterial cell membrane.
Pathway	: Microbiology/Virology
Target	: Antibiotic
Receptor	: β-Lactamase
Solubility	: Water: 2 mg/mL (4.95 mM); DMSO: 81 mg/mL (200.76 mM)
SMILES	: <chem>O=C([C@@H](C(C)C)S[C@]1([H])[C@@H]2NC([C@H](N)C3=CC=CC=C3)=O)N1C2=O)O.[H]O[H].[H]O[H].[H]O[H]</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:



1.Lacy MK, et al. Antimicrob Agents ChemOthers, 1999, 43(3), 672-677.