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DATASHEET

Ampicillin sodium salt

Product overview

Name	Ampicillin sodium salt
Cat No	HB4322
Applications	Cell Culture
Purity	>95%
Description	Antibiotic and selection marker

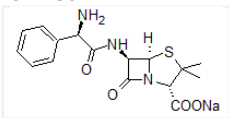
Biological Data

Biological description	β -lactam antibiotic widely used as a selection marker for <i>E.coli</i> and other bacteria during plasmid DNA isolation, protein expression and gene cloning.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in water (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(2S,5R,6R)-6-[[[(2R)-2-Amino-2-phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid sodium salt
Molecular Weight	371.39
Chemical structure	
Molecular Formula	C ₁₆ H ₁₈ N ₃ NaO ₄ S
CAS Number	69-52-3
PubChem identifier	101603128
SMILES	CC1([C@@H](N2[C@H](S1)[C@@H](C2=O)N=C([C@@H](C3=CC=CC=C3)N)[O-])C(=O)O)C.[Na+]
InChi	InChI=1S/C16H19N3O4S.Na/c1-16(2)11(15(22)23)19-13(21)10(14(19)24-16)18-12(20)9(17)8-6-4-3-5-7-8;/h3-7,9-11,14H,17H2,1-2H3,(H,18,20)(H,22,23);/q;+1/p-1/t9-,10-,11+,14-;/m1./s1
InChiKey	KLOHDWPABZXLGI-YWUHCJSESA-M
MDL number	MFCD00064313
Appearance	White to off-white

References

Ampicillin: Rise Fall and Resurgence

Kaushik et al (2014) J Clin Diagn Res 8(5)

PubMedID

24995206

Altering the Selection Capabilities of Common Cloning Vectors via Restriction Enzyme Mediated Gene Disruption

Manna et al (2013) BMC Res Notes 6(85)

PubMedID

23497512
