Hello Bio Limited
Unit 8D, Dunshaughlin Business Park,
Dunshaughlin, Republic of Ireland

T. +353 51 540 083
F. +44(0) 1179 811 601

customercare@hellobio.com
technicalhelp@hellobio.com

Company Registration No. 642982

DATASHEET

Ampicillin sodium salt

Product overview

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

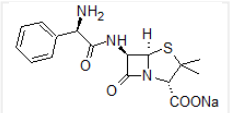
Biological Data

Biological description	β-lactam antibiotic widely used as a selection marker for *E.coli* and other bacteria during plasmid DNA isolation, protein expression and gene cloning.

Solubility & Handling

Solubility overview	Soluble in water (100 mM)
Storage instructions	+4°C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	$C_{16}H_{18}N_3NaO_4S$
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