



Bacampicillin [BSA] (DAG379S)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Bacampicillin, covalently linked to bovine serum albumin
Species	N/A
Purity	chromatography, dialysis
Conjugate	BSA
Applications	e.g. allergy test, immunoassays etc.
Molecular Weight	app. 65 kDa
Format	Liquid
Concentration	1 mg/mL, conjugation ratio is app. 1:10 - 1:40.
Size	1 mg
Buffer	PBS
Preservative	0.05% sodium azide
Storage	Store at 4°C.

BACKGROUND

Introduction	Bacampicillin is a prodrug of ampicillin, a broad-spectrum, semisynthetic, beta-lactam aminopenicillin antibiotic with bactericidal activity. Bacampicillin is hydrolyzed in vivo by esterases to its active metabolite ampicillin. Ampicillin binds to and inactivates penicillin-binding proteins (PBP) located on the inner membrane of the bacterial cell wall. Inactivation of PBPs interferes with the cross-linkage of peptidoglycan chains necessary for bacterial cell wall strength and rigidity. This interrupts bacterial cell wall synthesis and results in the weakening of
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the bacterial cell wall and causes cell lysis.

Keywords

drug-BSA conjugate, drug-conjugate, Bacampicillin BSA conjugate
