



## Bacampicillin [HRP] (DAG448S)

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

### PRODUCT INFORMATION

<b>Antigen Description</b>	Bacampicillin, covalently linked to horseradish peroxidase
<b>Species</b>	N/A
<b>Purity</b>	chromatography, dialysis
<b>Conjugate</b>	HRP
<b>Applications</b>	e.g. allergy test, immunoassays etc.
<b>Molecular Weight</b>	app. 44 kDa
<b>Reconstitution</b>	Reconstitute with 1 ml PBS without azide.
<b>Format</b>	Lyophilized
<b>Concentration</b>	1 mg/mL working concentration
<b>Size</b>	1 mg
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C.

### BACKGROUND

<b>Introduction</b>	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
---------------------	---

the bacterial cell wall and causes cell lysis.

---

**Keywords**

drug-HRP conjugate, drug-conjugate, Bacampicillin HRP conjugate

---