



## Cefalexin [BSA] (DAG4465)

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

### PRODUCT INFORMATION

<b>Product Overview</b>	Cefalexin, BSA-conjugate
<b>Antigen Description</b>	The cefalexin hydrate and BSA (bovine serum albumin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the cefalexin is directly linked to an amine group in the BSA, and/or a carboxyl group in the BSA is directly linked to the amine group in the cefalexin, without any linker by EDC conjugation method. Given the molecular weights of cefalexin and BSA are 365.41 Da and 66.4 kDa, respectively, the molar ratio of cefalexin:BSA in the conjugation solution is 182:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of cefalexin that is actually conjugated to each BSA molecule is not determined.
<b>Species</b>	N/A
<b>Conjugate</b>	BSA
<b>Applications</b>	Used as capture antigen for the detection of anti-cefalexin antibodies and as immunogen for the generation of cefalexin antibodies.
<b>Format</b>	Liquid
<b>Concentration</b>	2.0 mg/ml BSA
<b>Size</b>	1 mg
<b>Buffer</b>	Supplied in 20 mM PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.

### BACKGROUND

**Introduction**

Cefalexin (INN) or more commonly cephalixin is a first-generation cephalosporin antibiotic introduced in 1967 by Eli Lilly and Company. It is an orally administered agent with a similar antimicrobial spectrum to the intravenous agents cefalotin and cefazolin. It was first marketed as Keflex (Lilly), and is marketed under several other trade names. As of 2008, cefalexin was the most popular cephalosporin antibiotic in the United States, with more than 25 million prescriptions of its generic versions alone, for US\$255 million in sales (though less popular than two other antibiotics, amoxicillin and azithromycin, each with 50 million prescriptions per year).

**Keywords**

7-(d-alpha-aminophenylacetamido)desacetoxycephalosporanicacid; 7-beta-(d-alpha-amino-alpha-phenylacetyl-amino)-3-methyl-3-cephem-4-carboxyli; cefa-iskia; cefaloto; Cefadal; Cefadin; Taicelexin; Cefalexin; cephalixin; Cefalexin; cephalixin