

I-3035: Bacitracin-KLH Conjugate

Product Name:	Bacitracin-KLH Conjugate
Catalogue No:	I-3035
Conjugation Method:	EDC
Linker:	None
Number of Bacitracin per KLH:	Not determined
Concentration:	Approximately 2.0 mg/ml KLH (in 20 mM PBS, pH 7.4)
Storage:	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
Applications:	Used as immunogen for the generation of anti-bacitracin antibodies.

Brief Description:

The bacitracin zinc salt and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or more of the three amine groups in the bacitracin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of bacitracin sulfate and KLH are 1486.07 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of bacitracin:KLH in the conjugation solution is 5383 - 6056:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of bacitracin that is actually conjugated to each KLH molecule is not determined.

The bacitracin-KLH conjugate has been successfully used as an immunogen in inducing bacitracin specific antibodies in mice.

Due to its high molecular weight and its tendency to form aggregates, the conjugate is not completely soluble in the buffer that it is in. Therefore, it is strongly recommended to vigorously vortex immediately prior to aliquot or use.

PLEASE note that this product is intended for research use only; not for diagnostic or clinical use.

(Produced by Imgen BioSciences, Inc., November, 2010)