

I-3007: Penicillin G-KLH Conjugate

Product Name:	Penicillin G-KLH Conjugate
Catalogue No:	I-3007
Conjugation method:	EDC
Linker:	None
Number of Penicillin G 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-penicillin G antibodies.

Brief description:

The penicillin G and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the penicillin G is directly linked to an amine group in the KLH without any linker by EDC conjugation method. Given the molecular weights of penicillin G and KLH are 334.4 kDa and 8,000 – 9,000 kDa, respectively, the molar ratio of penicillin G:KLH in the conjugation solution is 23923-26913:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of penicillin G that is actually conjugated to each KLH molecule is not determined.

The penicillin G-KLH conjugate has been successfully used as an immunogen in inducing penicillin G 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., July, 2010)