

I-3012: Neomycin-KLH Conjugate

Product Name:	Neomycin-KLH Conjugate
Catalogue No:	I-3012
Conjugation method:	EDC
Linker:	None
Number of Neomycin 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-neomycin antibodies.

Brief description:

The neomycin trisulfate salt hydrate 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 six amine groups in the neomycin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of neomycin trisulfate salt hydrate and KLH are 908.88 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of neomycin:KLH in the conjugation solution is 8802 - 9902:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of neomycin that is actually conjugated to each KLH molecule is not determined.

The neomycin-KLH conjugate has been successfully used as an immunogen in inducing neomycin 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)