

I-3032: Apramycin-KLH Conjugate

Product Name:	Apramycin-KLH Conjugate
Catalogue No:	I-3032
Conjugation Method:	EDC
Linker:	None
Number of Apramycin 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-apramycin antibodies.

Brief Description:

The apramycin sulfate 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 four amine groups in the apramycin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of apramycin sulfate and KLH are 637.66Da and 8,000 – 9,000 kDa, respectively, the molar ratio of apramycin:KLH in the conjugation solution is 12546 - 14114:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of apramycin that is actually conjugated to each KLH molecule is not determined.

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