I-3014: Streptomycin-KLH Conjugate

Product Name: Streptomycin-KLH Conjugate

Catalogue No: I-3014

Conjugation method: EDC

Linker: None

Number of Streptomycin per KLH: Not determined

Concentration: Approximately 2.0 mg/ml KLH (in 20 mM PBS, pH 7.4)

Storage: Keep below -20^{o}C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4^{o}C.

Applications: Used as immunogen for the generation of anti-streptomycin antibodies.

Brief description:

The streptomycin sulfate salt and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or both of the two amine groups in the streptomycin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of streptomycin sulfate salt and KLH are 728.69 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of streptomycin:KLH in the conjugation solution is 10979 - 12351:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of streptomycin that is actually conjugated to each KLH molecule is not determined.

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