

## I-3008: Gentamicin-KLH Conjugate

<b>Product Name:</b>	Gentamicin-KLH Conjugate
<b>Catalogue No:</b>	I-3008
<b>Conjugation method:</b>	EDC
<b>Linker:</b>	None
<b>Number of Gentamicin per KLH:</b>	Not determined
<b>Concentration:</b>	Approximately 2.0 mg/ml KLH (in 20 mM PBS, pH 7.4)
<b>Storage:</b>	Keep below -20°C for up to 1 year. Avoid repeated freeze-and-thaw. For short term storage (< 3 weeks) keep at 4°C.
<b>Applications:</b>	Used as immunogen for the generation of anti-gentamicin antibodies.

### **Brief description:**

The gentamicin 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 gentamicin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of gentamicin sulfate and KLH are 449.5 - 477.6 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of gentamicin:KLH in the conjugation solution is 16750 - 20225:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of gentamicin that is actually conjugated to each KLH molecule is not determined.

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