

I-3038: Sulfadimidine-KLH Conjugate

Product Name:	Sulfadimidine-KLH Conjugate
Catalogue No:	I-3038
Conjugation Method:	EDC
Linker:	None
Number of Sulfadimidine 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-sulfadimidine antibodies.

Brief Description:

The sulfadimidine and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The amine group in the sulfadimidine is directly linked to a carboxyl group in the KLH without any linker by EDC conjugation method. Given the molecular weights of sulfadimidine and KLH are 278.33 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of sulfadimidine:KLH in the conjugation solution is 28743 - 32336:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of sulfadimidine that is actually conjugated to each KLH molecule is not determined.

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