

I-3023: Ceftazidime-KLH Conjugate

Product Name:	Ceftazidime-KLH Conjugate
Catalogue No:	I-3023
Conjugation method:	EDC
Linker:	None
Number of Ceftazidime 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:	Potentially used as immunogen for the generation of anti-ceftazidime antibodies.

Brief description:

The ceftazidime hydrate and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. The carboxyl group in the ceftazidime is directly linked to an amine group in the KLH, and/or a carboxyl group in the KLH is directly linked to the amine group in the ceftazidime, without any linker by EDC conjugation method. Given the molecular weights of ceftazidime hydrate and KLH are 546.58 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of ceftazidime:KLH in the conjugation solution is 14636 - 16466:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of ceftazidime that is actually conjugated to each KLH molecule is not determined.

The ceftazidime-KLH conjugate has not been tested as an immunogen for its immunogenicity of the conjugated ceftazidime in generating ceftazidime-specific antibodies in animals.

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)