

I-3047: Cefalexin-KLH Conjugate

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| Product Name: | Cefalexin-KLH Conjugate |
| Catalogue No: | I-3047 |
| Conjugation method: | EDC |
| Linker: | None |
| Number of Cefalexin 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-cefalexin antibodies. |

Brief description:

The cefalexin 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 cefalexin 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 cefalexin, without any linker by EDC conjugation method. Given the molecular weights of cefalexin sodium and KLH are 365.41 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of cefalexin:KLH in the conjugation solution is 21893 - 24630:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of cefalexin that is actually conjugated to each KLH molecule is not determined.

The cefalexin-KLH conjugate has been successfully used as an immunogen in inducing cefalexin 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., Dec., 2011)