

I-3009: Tetracycline-KLH Conjugate

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| Product Name: | Tetracycline-KLH Conjugate |
| Catalogue No: | I-3009 |
| Conjugation method: | EDC |
| Linker: | None |
| Number of Tetracycline 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-tetracycline antibodies. |

Brief description:

The tetracycline hydrochloride 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 tetracycline is directly linked to a carboxyl group in the KLH without any linker by EDC conjugation method. Given the molecular weights of tetracycline hydrochloride and KLH are 480.9 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of tetracycline:KLH in the conjugation solution is 16635 - 18715:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of tetracycline that is actually conjugated to each KLH molecule is not determined.

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