

Gentamicin, KLH-conjugate

DAG4484 chemosynthetic

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Gentamicin, KLH-conjugate
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
Species	chemosynthetic
Conjugate	KLH
Applications	The gentamicin, KLH-conjugate has been successfully used as an immunogen in inducing gentamicin specific antibodies in mice.
Usage	Used as immunogen for the generation of anti-gentamicin antibodies.
Notes	for research use only

PACKAGING

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.
Concentration	Approximately 2.0 mg/ml
Buffer	KLH(in 20 mM PBS, pH 7.4)

BACKGROUND

Introduction	Gentamicin is an aminoglycoside antibiotic, used to treat many types of bacterial infections, particularly those caused by Gram-negative organisms. However, gentamicin is not used for <i>Neisseria gonorrhoeae</i> , <i>Neisseria meningitidis</i> or <i>Legionella pneumophila</i> . Gentamicin is also ototoxic and nephrotoxic, with this toxicity remaining a major problem in clinical use.
Keywords	Gentamicin; Gentacycol; Gentavet; Refobacin tm; Uromycine; Lyracycline; 2-[4,6-Diamino-3-[3-amino-6-(1-methylaminoethyl)oxan-2-yl]oxy-2-hydroxycyclohexyl]oxy-5-methyl-4-methylaminooxane-3,5-diol

REFERENCES

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2. Hendriks JGE, van Horn JR, van der Mei HC, and Busscher, HJ (2004). "Backgrounds of antibiotic-loaded bone cement and prosthesis-related infection". Biomaterials 25 (3): 545–556. doi:10.1016/S0142-9612(03)00554-4. PMID 14585704.