Streptomycin, KLH-conjugate

DAG4488 chemosynthetic
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Streptomycin, KLH-conjugate
Description	The streptomycin sulfate salt and KLH (keyhole limpet hemocyanin) (10 mg each) are conjugated by EDC method in 0.1 M MES pH 5.0. One or both of the two amine groups in the streptomycin are directly linked to carboxyl group(s) in the KLH without any linker
Species	chemosynthetic
Conjugate	KLH
Applications	The streptomycin, KLH-conjugate has been successfully used as an immunogen in inducing streptomycin specific antibodies in mice.
Usage	Used as immunogen for the generation of anti-streptomycin 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	Streptomycin is an antibiotic drug, the first of a class of drugs called aminoglycosides to be discovered, and was the first antibiotic remedy for tuberculosis. It is derived from the actinobacterium Streptomyces griseus. Streptomycin is a bactericidal antibiotic. Streptomycin cannot be given orally, but must be administered by regular intramuscular injections. An adverse effect of this medicine is ototoxicity, nephrotoxicity, fetal auditory toxicity and neuromuscular paralysis.
Keywords	Streptomycin; 2,4-Diguanidino-3,5,6-trihydroxycyclohexyl 5-deoxy-2-O-(2-deoxy-2-methylamino-a-glucopyranosyl)-3-formylpentofuranoside; Agrimycin; Neodiestreptopab; NSC 14083; Streptomycin (base and/or unspecified derivatives); O-2-deoxy-2-methylamino-a-L-

REFERENCES

1. Zhu M, Burman WJ, Jaresko GS, Berning SE, Jelliffe RW, Peloquin CA. (October 2001). "Population pharmacokinetics of intravenous and intramuscular streptomycin in patients with tuberculosis". Pharmacotherapy 21 (9): 1037–1045. doi:10.1592/phco.21.13.1037.34625. PMID 11560193. Retrieved 2010-05-25.
2. Singh B, Mitchison DA (16 January 1954). "Bactericidal Activity of Streptomycin and Isoniazid Against Tubercle Bacilli". British Medical Journal 1 (4854): 130–132. doi:10.1136/bmj.1.4854.130. PMC 2084433. PMID 13106497.

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