



Neomycin [KLH] (DAG4486)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Neomycin, KLH-conjugate
Antigen Description	The neomycin trisulfate salt hydrate 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 six amine groups in the neomycin are directly linked to carboxyl group(s) in the KLH without any linker by EDC conjugation method. Given the molecular weights of neomycin trisulfate salt hydrate and KLH are 908.88 Da and 8,000 – 9,000 kDa, respectively, the molar ratio of neomycin:KLH in the conjugation solution is 8802 - 9902:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of neomycin that is actually conjugated to each KLH molecule is not determined. Note: 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.
Nature	Synthetic
Expression System	N/A
Species	N/A
Conjugate	KLH
Applications	Used as immunogen for the generation of anti-neomycin antibodies. The neomycin, KLH-conjugate has been successfully used as an immunogen in inducing neomycin specific antibodies in mice.
Procedure	None
Format	Liquid
Concentration	Approximately 2.0 mg/mL KLH
Size	1 mg
Buffer	Supplied in 20 mM PBS, pH 7.4
Preservative	None
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.
Warnings	PLEASE note that this product is intended for research use only; not for diagnostic or clinical

use.

BACKGROUND

Introduction

Neomycin is an aminoglycoside broad spectrum antibiotic effective against both gram positive and gram negative bacteria. It interferes with protein synthesis in sensitive bacterial cells such as species of Proteus and Staphylococcus.

Keywords

Neomycin
