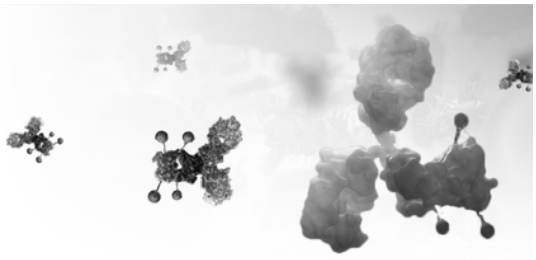

Hygromycin B [BSA] (DAG4469)

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

PRODUCT INFORMATION

Product Overview	Hygromycin B, BSA-conjugate
Antigen Description	The hygromycin B and BSA (bovine serum albumin) (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 hygromycin B are directly linked to carboxyl group(s) in the BSA without any linker by EDC conjugation method. Given the molecular weights of hygromycin B and BSA are 527.52 Da and 66.4 kDa, respectively, the molar ratio of hygromycin B:BSA in the conjugation solution is 126:1. The resultant conjugation solution is then buffer-exchanged with 20 mM PBS, pH 7.4. The number of hygromycin B that is actually conjugated to each BSA molecule is not determined.
Species	N/A
Conjugate	BSA
Applications	Used as capture antigen for the detection of anti-hygromycin B antibodies and as immunogen for the generation of hygromycin B antibodies. The hygromycin B, BSA-conjugate has been shown to be recognized by hygromycin B-specific antibodies by ELISA and lateral flow based immunoassay, respectively.
Format	Liquid
Concentration	2.0 mg/ml BSA
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.

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BACKGROUND

Introduction	Hygromycin B is an antibiotic produced by the bacterium Streptomyces hygroscopicus. It is an aminoglycoside that kills bacteria, fungi and higher eukaryotic cells by inhibiting protein synthesis. Hygromycin B was originally developed in the 1950s for use with animals and is still added into swine and chicken feed as an anthelmintic or anti-worming agent (product name: Hygromix). Hygromycin B is produced by Streptomyces hygroscopicus, a bacterium isolated in 1953 from a soil sample. Resistance genes were discovered in the early 1980s.
Keywords	Hygromycin B; Santihelmycin; hydromycinb; hygromix2.4; hygromix-8; hygrovetine; Hygromycin Solution; hygromycin B aqueous solution; hygromycin B from streptomyces hygroscopicus; hygromycin B plant cell culture tested

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