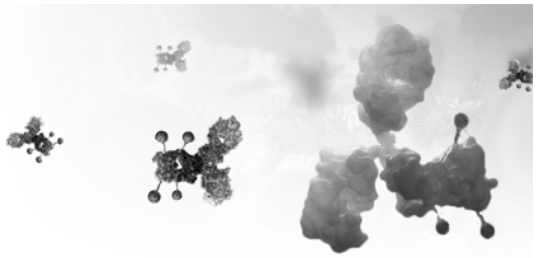

Recombinant HAV VP1 Protein [GST] (DAG542)

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

PRODUCT INFORMATION

Product Overview	Recombinant Hepatitis A Virus VP1 antigen, contains the the VP1 immunodominant region and a GST fusion partner, has the molecular weight of 39kDa, was expressed in E. coli, and puried in vitro using conventional chromatography techniques.
Antigen Description	Hepatitis A virus (HAV) encodes a single polyprotein which is posttranslationally processed into the functional structural and nonstructural proteins. Only one protease, viral protease 3C, has been implicated in the nine protein scissions.The protein contains the HAV VP1 immunodominant regions, amino acids: (502-605). Hepatitis A Virus 1 protein is purified by proprietary chromatographic techniques.
Species	HAV
Purity	> 90% pure (10% PAGE coomassie staining). Inclusion Bodies
Conjugate	GST
Applications	Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Molecular Weight	39 kDa
Format	Purified, Liquid
Concentration	1 mg/ml
Size	1 mg
Buffer	10mM Carbonate-bicarbonate buffer, pH 9.6, 0.1% SDS containing 50% glycerol
Preservative	None
Storage	2-8°C short term, -20°C long term

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BACKGROUND

Introduction	Hepatitis A virus (HAV) is the sole member of the Hepatovirus genus within the family Picornaviridae. The capsid of HAV encloses a single-stranded RNA genome of about 7.5 kb which is translated into a single polyprotein. The virion proteins VP1 to VP4 and the nonstructural proteins are generated from the polyprotein by a cascade of proteolytic cleavages. Only one protease, viral protease 3C, has been implicated in the nine protein scissions. Processing of the capsid protein precursor region generates a unique intermediate, PX (VP1-2A), which accumulates in infected cells and is assumed to serve as precursor to VP1 found in virions, although the details of this reaction have not been determined. Capsid proteins VP1, VP2, and VP3 form a closed capsid enclosing the viral positive strand RNA genome. VP1 is a major viral antigen.
Keywords	HAV; HAV VP1-P2A; Hepatitis A Virus VP1-P2A; Picornaviridae; Hepatovirus

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