Data sheet

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Jena Bioscience

HAV-VP3 (residues 304-415)

Hepatitis A Virus VP3 Capsid Protein

recombinant, *E. coli*

Cat. No.	Amount
PR-1119	100 µg

For *in vitro* use only
Quality guaranteed for 12 months
Store at -20°C

Avoid freeze / thaw cycles

Form
Liquid. Supplied in 10 mM CBB pH 9.6, 0.1% SDS and 50% glycerol.

Protein synonyms/aliases
Genome polyprotein.

Application
Recombinant HAV-VP3 may be used in ELISA and Western blots, excellent for detection of HAV with minimal specificity problems.

Specificity
Immunoreactive with sera of HAV-infected individuals.

Molecular Weight
38 kDa

Purity
>90% by SDS-PAGE

Description
The protein contains the HAV VP3 immunodominant regions, amino acids: 304 - 415.
Hepatitis A Virus VP1 protein is purified by proprietary chromatographic techniques.

Background
HAV, the prototype of the genus Hepatovirus, belongs to the family Picornaviridae.
Its 7.5-kb single-stranded RNA genome bears different distinct regions: the 5′ and 3′ noncoding regions (NCR), the P1 region, which encodes the structural proteins VP1, VP2, VP3, and a putative VP4, and the P2 and P3 regions encoding nonstructural proteins associated with replication. 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.

Selected References:

Sanchez *et al.* (2004) A novel CD4+ T-helper lymphocyte epitope in the VP3 protein of hepatitis A virus. *J. Med. Virol.* **72**:525.
Kanda *et al.* (2004) Hepatitis A virus VP3 may activate serum response element associated transcription. *Scand. J. Gastroenterol.* **38**:307.
Haro *et al.* (2003) Liposome entrapment and immunogenic studies of a synthetic lipophilic multiple antigenic peptide bearing VP1 and VP3 domains of the hepatitis A virus: a robust method for vaccine design. *FEBS Lett.* **540**:133.
Chavez *et al.* (2001) Membrane fusion induced by a lipopeptidic epitope from VP3 capside protein of hepatitis A virus. *Luminescence.* **16**:135.
Sospedra *et al.* (2001) Interaction study of peptide from VP3 capsid protein of hepatitis A virus through monolayers and fluorescence spectroscopy. *Luminescence.* **16**:103.
Chavez *et al.* (2001) Membrane fusion by an RGD-containing sequence from the core protein VP3 of hepatitis A virus and the RGA-analogue: implications for viral infection. *Biopolymers.* **58**:63.