

Recombinant HAV VP1

DAG3317 HAV

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Recombinant HAV VP1
Antigen Description	Forty-two antigenic domains were identified across the hepatitis A virus (HAV) polyprotein by using a set of 237 overlapping 20-mer synthetic peptides spanning the entire HAV polyprotein. Nineteen antigenic domains were found within the structural protein
Description	HAV VP1 Recombinant
Source	E. coli
Species	HAV
Specificity	The E. coli derived 48 kDa recombinant protein contains the VP1 immunodominant region (amino acids 502-605). It is immunoreactive with sera HAV-infected individuals. The HAV VP1 protein was purified by proprietary chromatographic techniques. It is >90% pu
Form	10mM CBB, pH9.6, 0.1% SDS and 50% glycerol
Applications	Applications include ELISA and western blots.
Usage	It is an excellent antigen for detection of HAV with minimal specificity problems.
Quality Control Test	100 micrograms, 500 micrograms, 1 milligram

PACKAGING

Storage	Protein may be shipped at ambient temperature. Upon arrival, store at -20°C. It is stable for up to five years frozen, one month in solution at room temperature.
----------------	---

BACKGROUND

Introduction	Hepatitis A Virus (HAV) is a 27nm nonenveloped, spherical, positive stranded RNA virus, classified within the genus hepatovirus of the picornavirus family and is among the smallest and structurally simplest of the RNA animal viruses. A single large polyprotein is expressed from a large open reading frame extending through most of the genomic RNA. This polyprotein is subsequently cleaved by a viral protease (3Cpro) to form three (possibly four) capsid proteins and several nonstructural proteins. HAV genomic replication occurs exclusively in the cytoplasm of the infected hepatocyte by a mechanism involving an RNA-dependent RNA polymerase.
Keywords	Hepatitis A Virus (HAV) VP1; HAV VP1

REFERENCES

1. Ryan KJ, Ray CG (editors) (2004). Sherris Medical Microbiology (4th ed.). McGraw Hill. pp. 541–4. ISBN 0-8385-8529-9.
2. Wasley A, Fiore A, Bell BP (2006). "Hepatitis A in the era of vaccination". Epidemiol Rev 28: 101–11.