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Recombinant HAV/Hepatitis A Virus VP4-VP2 (aa 55-164)

Catalog No.	CSI15701A	**Quantity:**	100 µg
	CSI15701B		0.5 mg
	CSI15701C		1.0 mg

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 proteins, and 22 were found within the nonstructural proteins, with one domain spanning the junction of VP1 and P2A proteins. Five of these domains were considered immunodominant, as judged by both the breadth and the strength of their immunoreactivity. One domain is located within the VP2 protein at position 57-90 aa. A second domain, located at position 767-842 aa, contains the C-terminal part of the VP1 protein and the entire P2A protein. A third domain, located at position 1403-1456 aa, comprises the C-terminal part of the P2C protein and the N-terminal half of the P3A protein. The fourth domain, located at position 1500-1519 aa, includes almost the entire P3B, and the last domain, located at position 1719-1764 aa, contains the C-terminal region of the P3C protein and the N-terminal region of the P3D protein. Four of the five most immunoreactive domains are derived from small HAV proteins and/or encompass protein cleavage sites separating different HAV proteins.
The *E.Coli* derived 44 kDa recombinant protein contains the VP4-VP2 immunodominant regions, amino acids 55-164.

Source: *E. coli*

Molecular Weight: 44 kDa

Formulation: 10 mM CBB, pH 9.6 + 0.1% SDS and 50% glycerol.

Purity: HAV VP4-VP2 protein is >90% pure as determined by 10% PAGE (coomassie staining).

Purification Method: HAV VP4-VP2 Protein was purified by proprietary chromatographic technique.

Specificity: Immunoreactive with sera HAV-infected individuals.

Storage & Stability: HAV VP4-VP2 protein although stable at 4°C for 1 week, should be stored below -18°C. **Please prevent freeze thaw cycles.**

Applications: HAV VP4-VP2 antigen is suitable for ELISA and Western blots, excellent antigen for detection of HAV with minimal specificity problems.

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com