HB220302

Recombinant HBV Surface Antigen-preS2 (HBsAg-preS2)

Product Information

Product Name	Cat#	Size
Recombinant HBV Surface Antigen-preS2 (HBsAg-preS2)	92547ES10	10μg
	92547ES60	100 μg
	92547ES76	500 μg

Product Description

The large envelope protein exists in two topological conformations, one which is termed 'external' or Le-HBsAg and the other 'internal' or Li-HBsAg. In its external conformation the protein attaches the virus to cell receptors and thereby initiating infection. This interaction determines the species specificity and liver tropism. This attachment induces virion internalization predominantly through caveolin-mediated endocytosis. The large envelope protein also assures fusion between virion membrane and endosomal membrane. In its internal conformation the protein plays a role in virion morphogenesis and mediates the contact with the nucleocapsid like a matrix protein.

Product Properties

Synonyms	Middle surface antigen,PreS2.
Accession	Q5F4I9
GeneID	10407
Source	E.coli-derived HBsAg-preS2
Molecular Weight	Approximately 5.7 kDa, a single non-glycosylated polypeptide chain containing 55 amino acids， with an N-terminal Met
AA Sequence	MQWNSTTFHQ ALLDPKVRGL YFPAGGSSSG TVNPVPTTAS PISSIFSRTG DPAPN
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Data is not available.
Endotoxin	< 1.0 EU per 1μg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20℃ to -80℃ for 1 year.
Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.