

HBV-A subtype adw2 (strain Rutter 1979) Large envelope protein (His)

General Information

Synonyms:	L-HBsAg (LHB);Large envelope protein;Major surface antigen;Large S protein;Large surface protein;L glycoprotein
Protein Construction:	2-400 aa
Species:	HBV-A
Expression Host:	E. coli
Accession:	P03141
Molecular Weight:	45.1 kDa (predicted)
AA Sequence:	GGWSSKPRKGMGTNLSVPNPLGFFPDHQLDPAFGANSNPDWDFNPVKDDWPAANQVGVGAFGPRLTP PHGGILGWSPQAQGILTTVSTIPPPASTNRQSGRQPTPISPPLRDSHPQAMQWNSTAFHQLQDPRVRGLYL PAGGSSSGTVNPAPNIASHISSISARTGDPVTNMENTSGFLGPLLVLQAGFFLLTRILTIPQSLDSWWTSLNFL GGSPVCLGQNSQSPTSNSHPTSCPPICPGYRWMCLRRFIIFLIFLLVLLDYQGMLPVCPLIPGSTTTSTG PCKTCTTPAQNSMFPSCCCTKPTDGNCTCIPISSWAFKYLWEWASVRFWSLSLLVPFVQWFVGLSPTVW LSAIWMMWYWGPSLYSIVSPFIPLPIFFCLWVYI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.; The middle envelope protein plays an important role in the budding of the virion. It is involved in the induction of budding in a nucleocapsid independent way. In this process the majority of envelope proteins bud to form subviral lipoprotein particles of 22 nm of diameter that do not contain a nucleocapsid.

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