

## Native Hemocyanin-Keyhole Limpet (KLH) subunits

Cat. No. KLH-82 Lot. No. (See product label)

### SPECIFICATION

**Source**

Megathura crenulata, Giant keyhole limpet

**Description**

Hemocyanins are proteins that use copper binding sites to bind and transport oxygen in a variety of arthropods and mollusks. Hemocyanin is isolated from the hemolymph of the animals. Hemocyanin is one of the strongest antigens known. Hemocyanin has been in use as an immunological reagent for many years. It is used as a carrier protein for antibody production against antigens. Recent advances in immunology and the role immune system plays in diseases have opened a whole new era of product development activities aimed at developing novel therapeutics which is aimed at teaching the body's immune system to fight diseases like cancer, AIDS, etc. The approach involves the use of highly immunogenic molecule like the hemocyanin for non-specific immunostimulation (NSI) or active specific immunostimulation (ASI) using conjugate vaccines, wherein the tumor (disease) specific antigens are covalently bound to carrier protein like KLH and the product used in human clinical studies. Such products are termed "vaccines". KLH subunits powder has major advantages associated with it, in terms of flexibility of use and the choice of buffer in early developmental studies. These subunits are highly pure and have low endotoxin content.

**Form**

Lyophilized protein

**Molecular Mass**

350 and 390 kDa (Two main characteristic bands co-migrating with ferritin)

**Purity**

Purity by MPLC-SEC:  $\geq 95\%$

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<b>Usage</b>	For Research Use Only! Not For Use in Humans.
<b>Notes</b>	Centrifuge the vial prior to opening
<b>Storage</b>	2-8°C
<b>Shipping</b>	Gel pack

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