

**Hemocyanin-Keyhole Limpet (KLH), Native protein**  
**KLH, keyhole limpet hemocyanin, hemocyanin, Megathura crenulata hemocyanin**  
**Catalog # PBV10538r**

## Specification

---

### Hemocyanin-Keyhole Limpet (KLH), Native protein - Product info

Concentration	<b>25 mg/vial</b>
Calculated MW	<b>370 kDa (One major band) KDa</b>

### Hemocyanin-Keyhole Limpet (KLH), Native protein - Additional Info

Gene Symbol	<b>KLH</b>
<b>Other Names</b>	
KLH, keyhole limpet hemocyanin, hemocyanin, Megathura crenulata hemocyanin	
Gene Source	<b>Megathura crenulata</b>
Source	<b>Megathura crenulata, Giant keyhole limpet</b>
Assay&Purity	<b>MPLC-SEC; ≥ 95%</b>
Assay2&Purity2	<b>N/A;</b>
Recombinant	<b>No</b>
<b>Format</b>	
Liquid	

### Storage

2-8°C ; 25 mg in opalescent blue liquid which may contain some particulate and fibers.

### Hemocyanin-Keyhole Limpet (KLH), Native protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Hemocyanin-Keyhole Limpet (KLH), Native protein - Images

### Hemocyanin-Keyhole Limpet (KLH), Native protein - Background

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 for teaching the body's immune system to fight diseases. 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. BioVision's native KLH has low endotoxin content and consistent high concentration in a phosphate buffer containing no extraneous metal ions for product stabilization, however with improved stability. This research grade material is suited for use in vaccine product development activities and also for routine immunological studies, antibody production, production of activated KLH and other developmental activities.