

Hemocyanin-Keyhole Limpet (KLH), Native

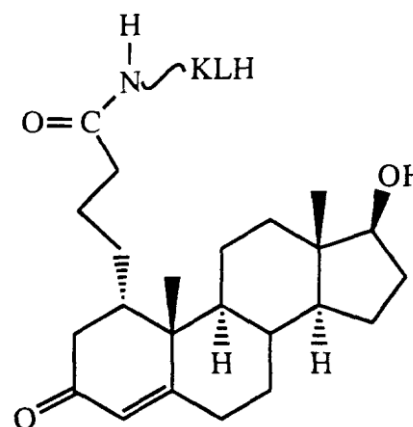
CATALOG #:	6288-25
AMOUNT:	25 mg
SOURCE:	<i>Megathura crenulata</i> , Giant keyhole limpet
MOL. WEIGHT:	370 kDa (One major band)
FORM:	Liquid (Solution in Phosphate buffer)
FORMULATION:	25 mg in phosphate buffered saline, pH 7.2, containing 1 mM calcium chloride and 0.5 mM magnesium chloride with 15 mM sodium azide as preservative. The liquid may appear faint blue to blue with some haziness due to particulates from the native source.
STORAGE CONDITIONS:	Store at 2 – 8°C.
COPPER:	0.10 – 0.30% Cu as a percentage of protein

DESCRIPTION:

Hemocyanins are proteins in the hemolymph of a variety of arthropods and mollusks that use copper binding sites to bind and transport oxygen. As one of the strongest antigens known, hemocyanin is used as an immunological reagent and 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 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.



Megathura crenulata,
Giant keyhole limpet



KLH binding

RELATED PRODUCTS:

- Hemocyanin-Keyhole Limpet (KLH) subunits, powder (**Cat # 6286-1**)
- Hemocyanin-Keyhole Limpet (KLH) subunits, solution (**Cat # 6287-20**)

FOR RESEARCH USE ONLY! Not to be used in humans.