

Keyhole limpet hemocyanin (KLH), FITC conjugated

Cat. Number: bsF-P0002

Quantity size: 100ul, 1ml

Concentration: 1mg/ml. Buffer = 0.01M TBS(pH7.4) with 0.03% Proclin300 and 50% Glycerol.

Background: Keyhole limpet hemocyanin is an extremely large, heterogeneous glycosylated protein consisting of subunits with a molecular weight of 350,000 and 390,000 in aggregates with molecular weights of 4,500,000-13,000,000. Each domain of a KLH subunit contains two copper atoms that together bind a single oxygen molecule (O₂). When oxygen is bound to hemocyanin, the molecule takes on a distinctive transparent, opalescent blue color. The KLH protein is potentially immunogenic yet safe in humans and is therefore highly prized as a vaccine carrier protein. The large and highly glycosylated KLH protein cannot be reproduced synthetically. It is available only as a purified biological product from the Keyhole Limpet *Megathura crenulata*.

Application:

- Excitation spectrum: 495nm
- Emission spectrum: 519nm
- Optimal working dilutions must be determined by the end user.
- Protect from light.

Storage: Shipped at 4°C, Store at -20°C (Avoid repeated freeze/thaw cycles).

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.