Recombinant Hirudin

Catalog No.      | Quantity:  
-----------------|-----------
CRH117A          | 2 µg      
CRH117B          | 10 µg     
CRH117C          | 1 mg      

Description: Recombinant Hirudin is a single, non-glycosylated polypeptide chain containing 63 amino acid residues.

Background: Hirudin is a potent thrombin-specific protease inhibitor originally derived from the medicinal leech. Unlike heparin, hirudin acts directly on thrombin, rather than through other clotting factors. It has a high binding affinity and specificity for thrombin. Therefore, hirudin prevents or dissolves the formation of clots and thrombi and has a therapeutic value in blood coagulation disorders, for the treatment of skin hematomas and of superficial varicose veins, either as an injectable or a topical cream.

Source: Pichia pastoris

Molecular Weight: 6.7 kDa

Formulation: Lyophilized from sterile filtered solution in 20 mM PBS, pH 7.0 containing 2% mannitol.

Purity: >96% by SDS-PAGE and HPLC

Endotoxin Level: <1 EU/mg

Biological Activity: The biological activity is measured by chromogenic assay. 1 unit is defined as the amount of Hirudin that neutralizes 1 unit of the WHO preparation 89/588 of thrombin.

Specific Activity: ≥14,000 ATU/mg protein.

Amino Acid Sequence: VVYTDCTESG QNCLCEGSN VCGQGNKCIL GSDGEKNQCV TGEGTPGPQS HNDGDFEEPE EYL

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: store at -20 °C for up to one year. Upon reconstitution, product is stable at 2-8 °C for one month. For longer term, store in working aliquots containing 0.1% BSA at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.

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