

Recombinant Hirudin

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

Description: Hirudin is a potent thrombin-specific protease inhibitor originally derived from a freshwater 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.

UniProt ID: P84590

Source: Expressed in *Pichia pastoris*

Molecular Weight: 6.7 kDa (63 aa) monomer

Formulation: Lyophilized from sterile filter 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 QNLCLCEGSN VCGQGKNCIL GSDGEKNQCV TGEETPGPQS
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 dilution should be made in appropriate buffered solutions.

Storage & Stability: Store at -20°C to -80 °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.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

