

Recombinant Hirudin

Catalog No.	CRH117B CRH117C	Quantity:	10 µg 1 mg
Description:	<p>Hirudin is a potent thrombin-specific protease inhibitor originally derived from a medicinal leech, <i>Hirudo medicinalis</i>. Unlike heparin, hirudin acts directly on thrombin, and complexed thrombin, rather than through other clotting factors. It has a high binding affinity and specificity for thrombin. Hirudin is the strongest natural inhibitor of thrombin. Therefore, hirudin prevents or dissolves the formation of clots and thrombin. It has a therapeutic value in blood coagulation disorders, with an advantage over more common anticoagulants and thrombolytics.</p> <p>Recombinant Hirudin is derived from yeast and is identical to natural Hirudin except for the substitution of leucine for isoleucine at the N-terminal end of the molecule and the absence of a sulfate group on the tyrosine at position 63.</p>		
UniProt ID:	P01050		
Source:	Expressed in <i>Pichia pastoris</i>		
Molecular Weight:	6.9 kDa (65 aa) monomer		
Formulation:	Lyophilized from sterile filter 20 mM PBS, pH 7.0 containing 2% mannitol.		
Purity:	> 98% 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.		
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.		

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