Technical Data Sheet

Recombinant Hirudin

Hirudin

Hirudin is a potent thrombin inhibitor originally derived from the medicinal leech Unlike heparin, hirudin act directly on thrombin, rather than through other clotting factors. They have a high binding affinity and specificity for thrombin. The mechanism of hirudin-thrombin binding appears to be unique. Recombinant hirudin variant is derived from yeast cell, the polypeptide containing 65 amino acid residues has a molecular weight of 6979.5 Da, which is identical to natural hirudin except for 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.

Catalog Number:	RC772-12
Source:	*Saccharomyces cerevisiae*
Molecular Weight:	6979.5 Da, containing 65 amino acid residues.
Quantity:	2ug/10ug/500μg
Purity:	>96% by SDS-PAGE and HPLC analyses.
Biological Activity:	rHirudin is fully biologically active when compared to standard. Its specific activity is $\geq 1\times10^4$ATU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2μm filtered solution of 20mM PBS, pH 7.0, containing 2% mannitol.
Endotoxin:	Less than 10EU/mg of rhirudin as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. **Avoid repeated freeze/thaw cycles**.
Usage:	This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE**.

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