

Hirudin Recombinant

Item Number rAP-4368

Synonyms

Description Recombinant Hirudin is derived from yeast and the polypeptide chain contains 65 amino acids and its Mw is 6979.5 Dalton which 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. The

Uniprot Accession Number

Amino Acid Sequence

Source Pichia Pastoris.

Physical Appearance and Stability Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Hirudin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Hirudin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Formulation and Purity Each mg of protein was lyophilized from a sterile solution containing 20mM PBS pH-7 and 2% mannitol. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Application

Solubility It is recommended to reconstitute the lyophilized Hirudin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity The specific activity was found to be >14,000ATU/mg.

Shipping Format and Condition Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**