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Datasheet for ABIN987947

Hirudin Protein

Overview

Quantity:	1 mg
Target:	Hirudin
Origin:	Leech
Source:	Yeast (<i>Pichia pastoris</i>)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	VVYTDCTESG QNLCLCEGSN VCGQGKNCIL GSDGEKNQCV TGEGETPGPQS HNDGDFEEPE EY
Characteristics:	The biological activity is determined by chromogenic assay, 1 unit is defined as the amount of Hirudin that neutralizes 1 unit of the WHO preparation 89/588 of thrombin. The specific activity is no less than 10,000ATU/mg protein.
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 10EU/mg of rhirudin as determined by LAL method

Target Details

Target:	Hirudin
Abstract:	Hirudin Products
Background:	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

Target Details

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. Synonym: Hirudin. Formulation: Lyophilized from a 0.2µm filtered solution of 20mM PBS, pH 7.0, containing 2% mannitol.

Molecular Weight: Approximately 6.7k Da, containing 63 amino acid residues.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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: 4 °C