r-Hirudin Pentapharm

**Description:** Hirudin is the most potent and specific thrombin inhibitor known. It forms a stable equimolar complex with thrombin. The complete structure of hirudin has been elucidated [Dodt et al., 1984] and a gene coding for hirudin was subsequently synthesized and expressed in yeast [Meyhack et al., 1987]. r-Hirudin amino acid sequence corresponds to natural hirudin of the variant HV-I except for tyrosine 63 which lacks the sulphate group.

**Application:** Hirudin can be utilised for many analytical and preparative purposes in hemostaseological test procedures as well as in blood and plasma fractionation to prevent the multiple enzymatic and non-enzymatic actions of thrombin. Hirudin may be added to test mixtures to exclude undesired thrombin actions due to contaminations of reagents with prothrombin or with prothrombin activators. Hirudin is used to selectively inhibit thrombin in certain assay conditions when cross-reactivity of thrombin and the chosen enzyme should lead to cleavage of the chromogenic substrate.

**Formula:** 

\[ \text{C}_{287}\text{H}_{440}\text{N}_{80}\text{O}_{110}\text{S}_{6} \]

**MW:** 6963.5

**Storage:** May be used by the expiry date given on the label when stored unopened, protected from moisture, in the dark, 2°-8°C. Avoid contamination of the reagents by micro-organisms. Shipment of product does not require cooling during the time of transportation.

Vial 2'000 ATU/vial 2°–8°C

Bulk 10'000 ATU/mg -20°C

**Note:** r-Hirudin Pentapharm may be used for in vitro diagnostic purposes only.

**References:**


Stocker K. Laboratory use of Hirudin. Seminars in Thromb and Hemostasis 1991; 17: 113-121

Stocker K. Hirudin for diagnostic purposes. Haemostasis 1991; 21 (suppl1): 161-167

**Package size:** Vial containing 2'000 ATU

Bulk [>10'000 ATU/mg]  

**Code:** 126-05 126-07

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