PENTAPHARM

Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei. The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

r-Hirudin EC

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] and other micro-organisms.

The amino acid sequence of recombinant hirudin (r-Hirudin, [Leu1, Thr2]-63-desulfatohirudin) corresponds 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.

Application: r-Hirudin can be utilised for many analytical and preparative purposes in hemostaseological test

procedures as well as in blood and plasma fractionation to block the multiple enzymatic and nonenzymatic actions of thrombin. r-Hirudin may be added to test mixtures to exclude undesired thrombin actions due to contaminations of reagents with prothrombin or with prothrombin

activators.

Formula: C₂₈₇H₄₄₀N₈₀O₁₁₀S₆ **MW:** 6979.5

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.

packaging size 2'000 ATU/vial store at 2°-8°C

Note: r-Hirudin is to be used for *in vitro* diagnostic purposes only.

References: Dodt J, Müller HP, Seemüller U, Chang JY.

The complete amino acid sequence of hirudin, a thrombin specific inhibitor, application of colour

Carboxymethylation.

FEBS Lett 1984; 165: 180-4.

Meyhack B, Heim J, Rink H, Zimmermann W, Maerki W.

Desulfatohirudin, a specific thrombin inhibitor: expression and secretion in yeast.

Thromb Res 1987; Suppl. 7: 33

Svendsen L, Brogli M, Lindeberg G, Stocker K.

Differentiation of thrombin- and factor Xa-related amidolytic activity in plasma by means of a

synthetic thrombin inhibitor. Thromb Res 1984; 34: 457-62.

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 Code: 126-10

FOR RESEARCH USE ONLY, NOT FOR HUMAN USE OR DRUG USE.

Distributed by:

LOXO

MMUNOLOGIE • MOLEKULARBIOLOGIE
BIOCHEMIE • PRODUKTE UND SYSTEME

www.loxo.de - info@loxo.de