PENTAPHARM

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.

Protac[®]

Protac®, a single chain glycoprotein, is a fast-acting protein C activator isolated from the venom **Description:**

of the copperhead snake Agkistrodon contortrix and closely related snake species. This serine proteinase rapidly converts protein C of man and other vertebrates into activated protein C which may be determined either by measuring its prolonging effect on the activated partial thromboplastin time (APTT) or by measuring its enzyme activity by means of a specific

chromogenic substrate.

Determination of protein C and protein S levels. Application:

Origin: Agkistrodon contortrix snake venom MW: 36'000 to 42'000

Assay: Chromogenic method Clotting method

> 0.050 ml human citrated plasma 0.025 ml human citrated plasma 0.050 ml Protac[®] (0.5 unit/ml) 0.025 ml Protac® (0.1 unit/ml)

=> incubate for 5 min at 37°C 0.025 ml Actin®

50 mM Tris-HCl buffer, pH 8.4 => incubate for 4 min at 37°C 0.800 ml Pefachrome®PCa (4 mM) 0.100 ml 0.025 ml 25 mM CaCl₂ => Determination of ΔOD/min at 405 nm => Determination of clotting time

Unit definition: 1 Unit is the amount of Protac® which activates the amount of protein C contained in 1 ml of

normal citrated human plasma within 5 min at 37°C.

Stability: Lyophilised vials: 5 years

> Reconstituted vials: 30 days at 2 – 8°C, approx. 7 days at 37°C

> > 1 year at -20°C, 1 month at 20°C.

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.

References: Bastian S. Protein C-Diagnostik – Methoden, Interpretation und Limitationen. ellipse 2002; 18 (1):

11-16

Gempeler-Messina PM, Volz K, Bühler B, Müller C. Protein C Activators from Snake Venoms and

Their Diagnostic Use. Haemostasis 2001; 31:266-72.

Robert A, Eschwege V, Hameg H, Drouet L, Aillaud MF. Anticoagulant response to Agkistrodon contortrix venom (ACV test): a new global test to screen for defects in the anticoagulant protein C

pathway. Thromb Haemost 1996; 75: 562-66.

Kraus M, Noah M, Fickenscher K. The PCAT - a simple screening assay for assessing the functionality of the protein C anticoagulant pathway. Thromb Res 1995; 79: 217-22.

Meier J, Stocker K. Snake venom protein C activators. In: Handbook of Natural Toxins, Reptile Venoms and Toxins. Tu AT, ed. New York: Marcel Dekker 1990; 265-79.

Stocker K, Fischer H, Meier J, Brogli M, Svendsen L. Characterization of the protein C activator Protac® from the venom of the southern copperhead (Agkistrodon contortrix) snake. Toxicon

Package size: Vial containing 3 unit/vial Code: 113-01

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