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.

Pefachrome® PCa

Application: Highly sensitive chromogenic peptide substrate for activated protein C.
Determination of Protein Ca activity for research, in-process and quality control.

Formula: H-D-Lys(Cbo)-Pro-Arg-pNA·2AcOH

Principle: Protein C + Protac® ==> Protein Ca
H-D-Lys(Cbo)-Pro-Arg-pNA + PCa ==> H-D-Lys(Cbo)-Pro-Arg-OH + pNA + PCa

Solubility: Up to 4 mM in H_2O **MW:** 773.9

K_M: 0.303 mM v_{max}: 25.0 µmol/ml protein C/min

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.

Material required but not provided:

Reference material, buffer, Protac®

Buffer: 50 mM Tris-imidazole buffer pH 8.4, 150 mM NaCl

Assay: Suggested protocol for the determination of Protac®-activated protein C:

0.050 ml citrated plasma	
0.100 ml	Protac®,0.5 units/ml
=> incubate for 5 min at 37°C	
1.650 ml	buffer
0.200 ml	Pefachrome®PCa, 4 mM in H_2O
⇒ Determination of ΔOD/min at 405 nm	

References:

Stocker K, Fischer H, Meier J.
Practical application of the protein C activator Protac® from *Agkistrodon contortrix* venom.
Folia Haematol 1988; 115: 260-64.

Takahashi H, Hanano H, Tatewaki W, Shibata A.
Fast functional assay of protein C in whole plasma using a snake venom activator: Evaluation in patients with congenital and acquired protein C deficiencies.
Clin Chim Acta 1988; 175: 217-22.

Wikstroem P, Svendsen L, Schulze AJ, Prasa D, Stuerzebecher J.
Highly selective chromogenic and fluorogenic peptide substrates for activated protein C.
Poster GTH 1998, Frankfurt, Germany

Package size: Bulk [g] **Code:** 089-02

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

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