

PENTAPHARM

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 H₂O **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 ₂ O
⇒ 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

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