

Pefachrome[®] PCa (Pefa-5773)

- 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: Vial containing 10 μmol **Code:** 089-20
Bulk [g] 089-02
FOR RESEARCH USE ONLY. NOT FOR HUMAN USE OR DRUG USE.

