

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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