

Pefachrome[®] PCa3297

Application: Sensitive chromogenic peptide substrate with significantly improved selectivity for activated protein C. Protac[®] (pat. protein C activator from Pentapharm) does not cleave this substrate, therefore no background absorption is observed with this substrate.

Formula: Pyr-CHG-Arg-pNA·AcOH

Principle: Protein C + Protac[®] ==> Protein Ca

Pyr-CHG-Arg-pNA + PCa ==> Pyr-CHG-Arg-OH + pNA + PCa

MW: 604.7

K_M: 0.899 mM

V_{max}: 0.014 μmol/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.

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

| |
|--|
| 0.200 ml Protac [®] (0.5 units/ml) 0.025 ml plasma (ISTH Lot 1; Immuno) => incubate for 6 min at 37°C 1.600 ml 50 mM Tris-imidazole buffer pH 8.4, 300 mM NaCl 0.200 ml incubated plasma 0.200 ml Pefachrome [®] PCa3297 (4 mM in water) => 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.

Package size: Vial containing 25 mg
Bulk [g]

Code: 089-08

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