Pentapharm® 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® $\rightarrow$ Protein Ca

Pyr-CHG-Arg-pNA + PCa $\rightarrow$ 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 microorganisms. 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)  
$\rightarrow$ 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)  
$\rightarrow$ Determination of $\Delta$OD/min at 405 nm


Package size: Vial containing 25 mg

Code: 089-08

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

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