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\text{2AcOH}

Principle: Protein C + Protac\textsuperscript{®} $\rightarrow$ Protein Ca
H-D-Lys(Cbo)-Pro-Arg-pNA + PCa $\rightarrow$ H-D-Lys(Cbo)-Pro-Arg-OH + pNA + PCa

Solubility: Up to 4 mM in H\textsubscript{2}O

$K_m$: 0.303 mM

$v_{max}$: 25.0 \textmu mol/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\textsuperscript{®}

Buffer: 50 mM Tris-imidazole buffer pH 8.4, 150 mM NaCl

Assay: Suggested protocol for the determination of Protac\textsuperscript{®}-activated protein C:

\[
\begin{align*}
0.050 \text{ ml citrated plasma} \\
0.100 \text{ ml Protac}\textsuperscript{®}, 0.5 \text{ units/ml} \\
\Rightarrow \text{incubate for 5 min at 37}^\circ\text{C} \\
1.650 \text{ ml buffer} \\
0.200 \text{ ml Pefachrome}\textsuperscript{®} \text{PCa}, 4 \text{ mM in H}_2\text{O} \\
\Rightarrow \text{Determination of } \Delta \text{OD/min at 405 nm}
\end{align*}
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References:

Package size: Bulk [g]  
Code: 089-02

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