

Hinweis/Note:

PENTAPHARM

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.
The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.

Pefachrome® FVIIa

Application: Highly sensitive chromogenic peptide substrate for factor VIIa. Determination of factor VIIa activity for research, in-process and quality control of factor VIIa preparations.

Formula: CH₃SO₂-D-CHA-But-Arg-pNA·AcOH

Principle: CH₃SO₂-D-CHA-But-Arg-pNA + E ==> CH₃SO₂-D-CHA-But-Arg-OH + pNA + E
E = Enzyme (factor VIIa)

Solubility: Up to 4 mM in dist. H₂O

MW: 670.8

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.

Note: The sensitivity of this substrate for factor VIIa is significantly increased in the presence of tissue factor (TF).

Kinetic data:

	K_M	V_{max}
without TF	5.0 mM	6.72 nmol/min
with TF Ratio VIIa / TF:≈1/10	0.97 mM	69.7 nmol/min

Material required but not provided:

Tissue factor (TF), buffer, dist. water

Tissue factor: 0.31 mg/ml

Buffer: 0.1 M Tris, 100 mM NaCl, 5 mM CaCl₂, 0.1% BSA, pH 8.4

Assay: Suggested protocol for the determination of factor VIIa activity:

0.020 ml factor VIIa (0.025 mg/ml)
0.020 ml TF
=> 2 min at 37 °C
1.760 ml buffer
0.200 ml Pefachrome® FVIIa (4 mM in dist. water)
=> Determination of ΔOD/min at 405 nm

Package size: Bulk [g]

Code: 093-01

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