

Pefachrome[®] PK (Pefa-5019)

Application: Highly sensitive chromogenic peptide substrate for plasma kallikrein (PK). Determination of plasma kallikrein activity for research, in-process and quality control.

Formula: H-D-But-CHA-Arg-pNA·2AcOH

Principle: H-D-But-CHA-Arg-pNA + PK ==> H-D-But-CHA-Arg-OH + pNA + PK

MW: 652.7

K_M: 0.175 mM

v_{max}: 7.48 μmol/min

Solubility: Up to 4 mM in H₂O

4 mM solution: Add 2,5 ml H₂O to 1 vial containing 10 μmol substrate

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:

Dextran sulfate (0.025 g/l), buffer, reference material

Buffer: 50 mM Tris-imidazole buffer pH 7.9, 150 mM NaCl

Assay: Suggested protocol for the determination of plasma kallikrein:

Step 1:

Activation of citrated plasma diluted 1:2 with dextran sulfate (0.025 g/l)
=> incubate for 7 min at 0 °C

Step 2:

1.775 ml buffer
0.025 ml Activated plasma or
0.025 ml Enzyme (2.16 units/ml benzoyl-L-arginine-ethylester (BAEE))
0.200 ml Pefachrome[®]PK (0.5 mM in water)
=> Determination of ΔOD/min at 405 nm

Package size: Vial containing 10 μmol
Bulk [g]

Code: 080-31
080-03

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