

SPECTROZYME® P. Kal Chromogenic substrate

Product No. ADG302

Description

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

Chemistry**Formula:** H-D-But-CHA-Arg-pNA.2AcOH**Chemical name:** H-D-butyl-cyclohexylalanine-arginine-p-nitroanilide diacetate salt**MW:** 652.7 Dalton**Solubility:** 4 mM in distilled/deionized water**Biochemical Characteristics:** $V_{\max} = 7.48 \mu\text{mol/sec}$ $K_M = 0.175 \text{ mM}$ **Assay protocol for the determination of plasma kallikrein****Material required but not provided:**

- Dextran sulfate (0.025 g/l)
- Buffer: 50 mM Tris-imidazole buffer, 150 mM NaCl, pH 7.9

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))

=>Determination of OD at 405 nm

Warnings and Precautions**Contains:** 7-Amino-4-methylcoumarin**Hazard pictograms**

Warning

Signal word**Hazard statements**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

Precautionary statements

- P261 Avoid breathing dust.
- P280 - Wear protective gloves.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P501 - Dispose of contents/container in accordance with local/regional/ national/international regulations.

Presentation

Amber glass vial containing 25 mg of substrate.

Reconstitution

Reconstitute with filtered deionized water. Shake gently before use.

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.

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Hinweis/Note:

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.