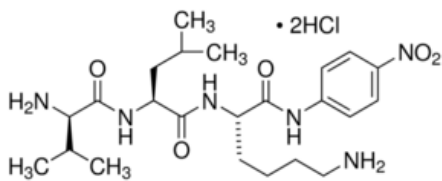


PlasminChrom

Catalog No: 100-01

Application: Highly sensitive chromogenic substrate for plasmin.

Sequence: H-D-Val-Leu-Lys-pNA · 2HCl

Structure	MW	*K _{cat}	*K _m
	551.6 g/mol	12 s ⁻¹	0.2 mM

* General Reference: *Handbook of Synthetic Substrates for the coagulation and fibrinolytic system*, by H.C. Hemker, 1983, Martinus Nijhoff Publishers. K_m and K_{cat} is reported using the following buffer: 50 mM Tris, 0.15 mM NaCl, pH 7.4, 37 °C

Aliquot size: 5mg PlasminChrom and 20mg mannitol. Soluble in distilled water.

Storage: 2-8°C

Substrate may be used until expiration date on label when stored unopened (protected from light and moisture).

Once reconstituted substrate expires within 6 months. Must avoid contamination by micro-organisms.

Reconstitution:

Desired concentration (mM)	Volume of H ₂ O to add (mL)
2	4.532
3	3.022
4	2.266

Sample protocol for determination of plasmin:

Materials needed but not provided:

50 mM Tris, 110 mM NaCl, 0.5% BSA, pH 7.4. Warm to 37°C prior to use.

50% Glycerol, pH 3.0. Warm to 37°C prior to use.

Plasmin: Dilute plasmin 1:100 to 0.150 µg/mL in 50% glycerol, pH 3.0. Use positive displacement pipette for this step (990 µL buffer + 10 µL sample).

Reconstitute the substrate to 3 mM

Protocol:

Reaction Mix: Add 0.5 mL of substrate to 1.7 mL of substrate buffer, place at 37°C
Add 900 µL of Reaction Mix and 100 µL of diluted plasmin
Measure ΔOD/min at 405 nm for 2 min at 37°C.

RESEARCH USE ONLY

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