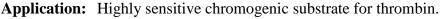


ThrombinChrom

Catalog No: 100-02



Sequence: H-D-Phe-Pip-Arg-pNA 2HCl

Structure	MW	*K _{cat}	[*] K _m
	625.6 g/mol	100 - 200 s ⁻¹	10 µM

* 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 M NaCl, pH 8.3, 37°C.

Aliquot size: 5mg ThrombinChrom and 20 mg 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	Volume of H ₂ O to add
(mM)	(mL)
2	3.996
3	2.664
4	1.998

Sample protocol for determination of Thrombin:

Materials needed but not provided:

50 mM Tris, 130 mM NaCl, 0.5% BSA, pH 8.3

Thrombin: Dilute human thrombin to 0.8 ug/mL in assay buffer. Unknown thrombin containing samples might need to be diluted until in measuring range. Reconstitute the substrate to 2 mM

Protocol:

Working Substrate Solution: Add 0.150 mL of 2 mM substrate into 9.850 mL of assay buffer, place at 37°C

Add 950 μL of Working Substrate Solution and 50 μL of diluted thrombin sample to a cuvette.

Measure $\Delta OD/min$ at 405 nm for 2 min at 37°C.

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