

5-CHROM-38 Thrombin Chromogenic Substrate

REF 5D-30805

**For Research Use Only.
Not for Use in Diagnostic Procedures.
For *in vitro* use only.**

**Store at 2-8°C
1 vial of 25 mg**

English, last revision: 03-2023

ORIGIN

Synthetic generic chromogenic substrate, highly purified and stabilized.

SPECIFICITY

Recommended substrate for Thrombin.

PRESENTATION

Each vial contains about 25 mg of 5-CHROM-38, lyophilized in presence of Mannitol as a bulking agent.

RECONSTITUTION:

According to the research protocol used, the 5-CHROM-38 chromogenic substrate can be restored with variable volumes of distilled water; for example 5 mL can be used for a substrate concentration of 5 mg/mL, or 20 mL for a substrate concentration of 1.25 mg/mL.

STABILITY:

Lyophilized:

- Until the expiration date printed on the vial.

After reconstitution, in their original vial, and provided any contamination or evaporation is avoided:

- 7 days at room temperature (18-25°C).
- 3 months at 2-8°C.
- Do not freeze.

PEPTIDE SEQUENCE:

H-D-Phe-Pip-Arg-pNa, 2HCl.

CHEMICAL STRUCTURE:

$C_{27}H_{36}N_8O_5$, 2HCl.

MOLARITY:

45 μ Moles/vial.

PURITY GRADE:

$\geq 95\%$.

MOLECULAR WEIGHT (-2 HCl): 553 Da.

MOLECULAR WEIGHT (+2 HCl): 625 Da.

FREE pNA CONTENT (measured on substrate at 2.5 g/L):

$OD_{405nm} \leq 0.30$.

USE:

All research studies and protocols where a source of chromogenic substrate for Thrombin is required.

This kit is for research use only and should not be used for patient diagnosis or treatment.

The results obtained should be for research purposes only and not used for patient diagnosis or treatment.

RESPECTIVE REACTIVITIES:

Thrombin	FXa	Plasmin	Kallicrein	aPC
100	5	5	60	40

Assay conditions must be established for making the substrate totally specific for Thrombin.

SYMBOLS:

Symbols used and signs listed in the ISO 15223-1 standard, see symbol definitions below.

 Catalog number

 Batch code

 Expiration date

 Reconstitution volume

 YYYY-MM-DD Use by

 See instruction for use

 Temperature limitation

Certificate of Analysis

5-CHROM-38 Thrombin Chromogenic Substrate

Vial of 25 mg

REF 5D-30805

LOT XXX

EXP XXX

Store at 2-8°C

Analytical Data | Specifications

5-CHROM-38 content (mg):

28 mg | ≥ 22 mg

HPLC analysis (Purity Grade):

99% | $\geq 95\%$

Solubility in water (mg/mL):

25 mg/mL | ≥ 5 mg/mL

Free pNA content OD_{450nm}:

0.219 | ≤ 0.30

Experimental Molecular Weight

(-2HCl): 553 | 553 ± 5 (-2HCl)
(+2HCl): 626 | 625 ± 5 (+2HCl)

Conclusions:

Date: XXX

Passed
 Refused