

— THROMBIN CHROMOGENIC SUBSTRATE · ANTI-IIA · 5-DIAGNOSTICS

Measure thrombin (Factor IIa) — *cleanly,* *at 405 nm.*

A highly purified synthetic peptide substrate for **thrombin (Factor IIa)**. On cleavage it releases **para-nitroaniline (pNA)**, read at 405 nm in direct proportion to enzyme activity. The peptide is the established **Chromogenix S-2238** sequence — a drop-in equivalent — supplied lyophilized with mannitol, from a single vial to a manufacturing pack. Part of the **5-CHROM™ series**, available worldwide from 5-Diagnostics through Aniara.

CHROMOGENIC SUBSTRATE · 5-DIAGNOSTICS

Thrombin Substrate

pNA at 405 nm · S-2238 equivalent

- Releases **para-nitroaniline (pNA)** on cleavage by thrombin (Factor IIa) — absorbance at 405 nm is proportional to activity.
- Peptide sequence **H-D-Phe-Pip-Arg-pNA** — the S-2238 substrate, no protocol redesign.
- **5-CHROM-38 (A5D-30805)** — supplied worldwide through Aniara, a dependable second source.
- Lyophilized with mannitol — single-vial (1×25 mg) to bulk (12×25 mg).

S-2238 equivalent · RUO

25 mg

SAME PEPTIDE, DROP-IN

Identical sequence and **pNA-at-405 nm** readout as the legacy Chromogenix S-2238 — drop into existing protocols with no redesign.

Supplied **worldwide** through Aniara from 5-Diagnostics — a dependable second source for routine and production-scale use.

Single 25 mg vials for development; 12-vial packs for routine and production scale.

— ONE SUBSTRATE, THREE BENCHES

Academic research

Thrombin kinetics, inhibitor characterization and coagulation-pathway research — a clean amidolytic readout.

Quality control

Heparin **anti-IIa potency** (USP/EP), antithrombin potency and thrombin-reagent QC.

Pharma research

Direct thrombin-inhibitor development (dabigatran, argatroban, hirudin) and AT-concentrate potency.

Defined enzymology, on request

Peptide sequence, MW, K_m , k_{cat} and molarity per vial are available for assay development and validation. The user establishes and validates assay conditions and protease specificity.

Regulatory & availability: Thrombin Substrate is a synthetic, highly purified **research-grade reagent** — for research and pharmaceutical quality-control applications, not for use in diagnostic procedures. The thrombin (anti-IIa) and Factor Xa (anti-Xa) substrates support heparin-potency QC under the European & US Pharmacopoeia. Manufactured by 5-Diagnostics and distributed worldwide by Aniara Diagnostica. “Chromogenix” and S-series designations are referenced for cross-identification only and remain the marks of their respective owner. Single-vial and bulk formats; pricing on request. Therapeutic agents named are referenced as analytes / scientific context and are not Aniara products. © 2026 Aniara Diagnostica, Inc.