

— RECOMBINANT HIRUDIN · DIRECT THROMBIN INHIBITOR · HYPHEN BIOMED

Inhibit thrombin directly — *no cofactor required.*

Recombinant Hirudin is the most specific, potent direct thrombin inhibitor — a 65-residue polypeptide that binds thrombin **1:1** at both the active site and exosite, **independently of antithrombin or any cofactor** (unlike heparin). Manufactured in France by HYPHEN BioMed and standardized in **Anti-Thrombin Units (ATU)**, it quenches thrombin cleanly in any in vitro setting — sample stabilization, assay development, bioprocessing and DTI / hirudin-class drug research.

DIRECT THROMBIN INHIBITOR · HYPHEN BIOMED, FRANCE

Recombinant Hirudin

Specific anti-IIa · standardized in ATU

- The most specific direct thrombin inhibitor — binds thrombin **1:1** at the active site and exosite.
- Acts **independently of antithrombin** and any cofactor — unlike heparin.
- A defined **European recombinant** hirudin — single-sequence and consistent, **not a variable natural leech extract**.
- Standardized in **Anti-Thrombin Units (ATU)** for reproducible, quantitative dosing.
- Quenches thrombin cleanly in **sample prep, assay development and bioprocessing**.

ARE120A · ARE120B · RUO

16k / 160k ATU

WHY HIRUDIN, NOT HEPARIN

Heparin needs antithrombin to work and inhibits several factors. Hirudin binds **thrombin alone, directly** and stoichiometrically — predictable and complete.

That makes it the cleanest way to **stop thrombin** in a sample or process without touching the rest of the cascade or depending on a cofactor.

European-manufactured, recombinant and ATU-standardized — reproducible **quality** from research bench to production scale.

WHERE IT IS USED

Thrombin neutralization / quenching

Hirudin-anticoagulated whole blood

Platelet function testing

Assay & reagent development

Bioprocessing / sample stabilization

DTI / hirudin-class drug research

Thrombin-pathway studies

PK / PD reference inhibitor

MEASURE & CONTROL THE ANTI-IIA ACTIVITY

BIOPHEN™ DTI

Chromogenic anti-IIa for direct thrombin inhibitors incl. hirudin (Ref. A220202).

HEMOCLLOT™ Thrombin Inhibitors

Clotting anti-IIa method for hirudin & other DTIs (Ref. ACK002K).

Plasma Hirudin Control

QC plasma titrated for hirudin (Ref. ASC025K).

Regulatory: Recombinant Hirudin (ARE120A, ARE120B) is manufactured by HYPHEN BioMed and is **For Research Use Only — not for use in diagnostic or therapeutic procedures**. It is a recombinant direct thrombin inhibitor for in vitro laboratory and manufacturing use where specific thrombin inhibition is required; supplied at 16,000 ATU (ARE120A) and 160,000 ATU (ARE120B), where ATU = Anti-Thrombin Units. Hirudin-based therapeutics named (lepirudin, desirudin) are referenced as scientific context and are not Aniara products. Distributed by Aniara Diagnostica. Pricing on request. © 2026 Aniara Diagnostica, Inc.