

— FACTOR VII · EXTRINSIC-PATHWAY TRIGGER · ACTIVITY & ANTIGEN

# Factor VII — *three methods*, one complete panel.

Factor VII triggers the tissue-factor pathway, and its short half-life makes it a sensitive marker in **congenital FVII deficiency, liver disease and VKA effect**, as well as in **recombinant FVIIa development**. Measure it by **chromogenic activity, one-stage clotting, or antigen ELISA** — pairing activity with antigen resolves quantitative (type I) from qualitative (type II) defects — all backed by matched calibration and QC.

## THREE MEASUREMENT METHODS

### CHROMOGENIC · ACTIVITY

#### BIOPHEN™ Factor VII

FVII activity via tissue factor: the FVII-TF complex activates **Factor X → FXa**, read on a chromogenic substrate. Automatable, interference-independent.

A221304

RUO

\$332

### CLOTTING · ONE-STAGE

#### FVII:C — Deficient Plasma

Classic **one-stage PT-based FVII:C** assay, run on **Factor VII Deficient Plasma** (<1% residual FVII) as substrate with thromboplastin.

ADPO30K · 6×1 mL

RUO

\$385

### ANTIGEN · ELISA

#### ZYMUTEST™ Factor VII

Two-site immunoassay (rabbit anti-FVII) for **FVII antigen** — quantifies protein independent of activity, to type a deficiency.

ARK036A

RUO

\$1,098

## CALIBRATED & CONTROLLED — EVERY METHOD, MATCHED

### REFERENCE CALIBRATOR & QC PLASMAS

#### BIOPHEN™ Plasma Calibrator

18-analyte reference plasma; assigns FVII and calibrates both clotting & chromogenic. **A222101**

*The ZYMUTEST™ FVII ELISA includes its own antigen calibrator and controls.*

#### Normal Control Plasma

Normal-range QC across factor activities · 12×1 mL. **A223201**

#### Abnormal Control Plasma

Pathological-range QC, covering FVII-X. **A223301**

## WHERE FACTOR VII IS MEASURED

Congenital FVII deficiency

Liver disease

VKA / warfarin effect

Recombinant FVIIa development

Extrinsic (TF) pathway research

Factor concentrate potency

**SELECTED REFERENCES** BIOPHEN™ FVII chromogenic (Ref. 221304, HYPHEN BioMed) used to assess FVII/FVIIa bioactivity in recombinant vitamin-K-dependent protein production — US Pat. 9,587,008. ZYMUTEST™ FVII ELISA and BIOPHEN™ FVII chromogenic (Aniara) used to characterize engineered short-acting FVII/FVIIa polypeptides — US Pat. 10,273,466 / 11,530,401.

**Regulatory:** BIOPHEN™ Factor VII (A221304), ZYMUTEST™ Factor VII (ARK036A), Factor VII Deficient Plasma (ADPO30K), the BIOPHEN™ Plasma Calibrator (A222101) and Normal / Abnormal Control Plasmas (A223201 / A223301) are **For Research Use Only** in the United States; **CE-IVD** in Europe and **Health Canada** licensed (—CAN configurations). Activity (chromogenic, clotting) and antigen (ELISA) methods measure different properties and are not interchangeable. Pricing shown is US list and subject to change. © 2026 Aniara Diagnostica, Inc.