VIXEN BIO

Bioanalytical Characterisation

Comprehensive capabilities

Expert-led assay selection, design & execution in clinically relevant conditions.

- Efficacy assessments
- In vitro & Ex-vivo characterisations
- Functional potency
- Mechanism of Action
- Immune-fitness profile
- Dosing support
- Safety & immunogenicity
- Biomarkers & CDx

Ready-to-use assay panels ⟷ **Custom assay development**

Scope & Develop

In-depth co-design with our senior team to establish optimal assay strategy for your therapeutic.

Development tiers

- Tier 1: Research grade
  Fast, flexible pilot study
- Tier 2: Exploratory EMA
  Alignment to EMA standard
- Tier 3: Clinical / EMA
  Formal regulatory design

Qualify & Validate

Tailored validation with scope-based entry-points. You control the project scope every step of the way.

Validation extensions

- Tier 1: Research grade
  Basic precision assessment
- Tier 2: Fit-For-Purpose
  Broader statistical validation
- Tier 3: Clinical grade
  Full EMA/ICH compliance

Testing & Analysis

Deep data deconvolution to deliver actionable insights that advance your strategic decisions.

Sample testing & reports

- Standalone or routine analysis
  Rapid go/no-go screening
- In-depth data deconvolution
  Root-cause MoA analysis
- Actionable milestone reports
  Filing strengthening data

Flexible entry points: Work scientist-to-scientist to tailor the exact scope and validation tier required for your milestone.

Have a biological blindspot?
Let's map it!
Contact our technical leads at info@vixenbio.com

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Capabilities & Solutions

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Portfolio snapshot

01 | Engage	Target and receptor interactions
Target enagement	Real-time binding kinetics Dual-target & apparent affinity Physiological kinetics
Recycling & half-life	FcRn (dual pH) panel
Immune recruitment	FcyR & C1q binding
02 | Function	**Cellular interactions & activity**
Cellular receptor engagement	Cell-kinetics: Avidity- apparent affinity Receptor mobility influcence Internalisation
Immune-cell activation & cytotoxicity	Live-cell recruitment potency Functional potency (ADCC, ADCP, TDCC, CDC)
03 | Translate	**Behavior in human systems**
Physiological response - dosing support	Free/bound analysis by Ligand binding assays Donor variability screening on target & function
Immune response	Cytokines & secreted proteins Immunophenotyping
Biomarker response	Auto-antibodies (titer/ affinity) Extracellular vesicles Circulating proteins
Immunogenicity	Anti-drug-antibodies (titer/ affinity)

Technology snapshot

REAL-TIME
SPR

SINGLE
ELISA
FRET

MULTIPLEX
Luminex
Flow cytometry

CELL-KINETICS
Ligandtracer

CELL-FUNCTION
Live-death assays
Flow cytometry

TRANSCRIPTOMIC
Bulk mRNA sequencing

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