nicoya

REVO™

SPR REIMAGINED FOR REAL-WORLD BIOLOGICS.

From peptides and proteins to antibodies, DNA, and beyond, Revo delivers publication-quality kinetics with cartridge-based simplicity – no fluidics, no large sample requirements, no instrument complexity.

Meet Revo.

Revo delivers true label-free binding kinetics by integrating all fluidics and sensors into a single consumable cartridge. This eliminates fluidic maintenance while enabling high-sensitivity, reproducible measurements from just microliters of sample. Designed for modern biologics research, Revo makes high-quality SPR accessible across every stage of discovery.

Revo is a revolution in:

Impact:

Revo combines high-end SPR clarity with unprecedented assay flexibility to deliver repeatable data – even for challenging samples.

Measure kinetics, affinity, and quant directly from real samples, without purification, fluidics prep, or manual cleanup.

Scale:

Run true SPR with as little as 2 µL of sample and scale throughput seamlessly from 4 to 8 channels as your science evolves. Built-in automation executes experiments end-to-end, reducing hands-on time to under 30 minutes.

Open APIs, cloud-enabled software, and ANSI/SLAS-standard consumables support seamless integration with external automation.

Access:

Revo lowers the barrier to SPR by reducing sample requirements to microliter scale – up to 99% less material than traditional methods, making high-confidence kinetics achievable for more scientists, earlier in discovery.

Visit nicoyalife.com/revo to learn more or contact us at info@nicoyalife.com

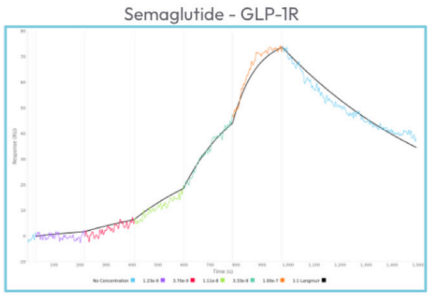
Revo: SPR reimagined for real-world biologics.

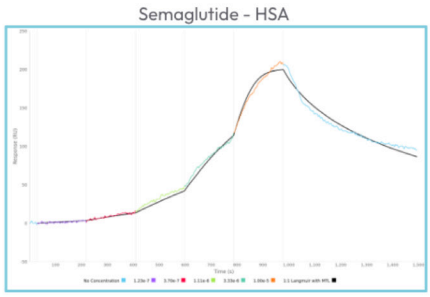
Built for discovery and mechanistic insight

– Measure real association and dissociation kinetics
– Compare binding across receptors, variants, and modified species
– Differentiate biological effects from chemical or formulation variability

Mechanistic insight from 2 µl of sample

Revo resolves binding kinetics of semaglutide to GLP-1R and human serum albumin, revealing affinity and residence-time differences critical to half-life extension using a fully automated, cartridge-based workflow.

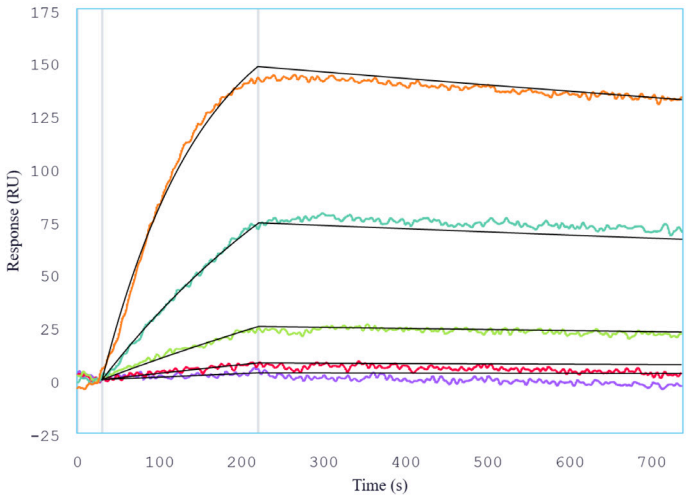




Binding Partner	k_a (M^{-1} s^{-1})	k_d (s^{-1})	K_D
GLP-1R	$1.52 \times 10^5 \pm 3.82 \times 10^4$	$1.58 \times 10^{-3} \pm 9.31 \times 10^{-4}$	10.0 ± 3.6 nM
HSA	$1.42 \times 10^3 \pm 3.57 \times 10^2$	$2.36 \times 10^{-3} \pm 3.90 \times 10^{-4}$	1.77 ± 0.59 µM

Resolve slow off rates

With low noise and a stable baseline, Revo accurately measures the high-affinity kinetics of monoclonal antibody-antigen interactions, allowing for thorough characterization of leading candidates at physiological conditions.



k_a ($M^{-1}s^{-1}$)	k_d (s^{-1})	K_D
$1.55 \times 10^5 \pm 6.36 \times 10^3$	$2.07 \times 10^{-4} \pm 1.27 \times 10^{-5}$	1.33 ± 1.36 nM