OpenSPR

Publication-quality binding kinetics & affinity data on your benchtop.

Overview

OpenSPR is the world's only benchtop surface plasmon resonance (SPR) instrument. It provides high quality, label-free interaction analysis for a fraction of the cost of existing solutions. Our unique nano-structured sensor surface uses localized SPR (LSPR) to deliver repeatable, highly sensitive kinetic data.

Compatible With

- Proteins
- Lipids
- Carbohydrates
- Antibodies
- Nucleic acids
- Small molecules
- Cells
- Viruses
- Nanoparticles
- & more

Applications

- Kinetics/affinity characterization
- Competition assays
- Target identification
- Epitope mapping
- Screening
- Yes/No binding
- Concentration

Technical Specifications

Performance

Association Rate (k_{on})	$1 \times 10^3 – 1 \times 10^7$ 1/M*s
Dissociation Rate (k_{off})	$0.1 – 1 \times 10^{-5}$ 1/s
Affinity Range (K_D)	mM–pM

Hardware Specifications

# of Channels	2
Flow Rate	5–200 µL/min
Injection	Semi-Automated
Injection Volume	5–100 µL
Autosampler	Optional upgrade to OpenSPR-XT
Temperature Range	10°C-40°C (max 10°C<ambient)
Temperature Precision	+/- 0.25°C
Buffer Switching	3 ports available, automated switching
Instrument Size	46 x 34 x 21 cm
Weight	42 lbs
File Output	CSV, Tracedrawer

Benchtop

Avoid costly & inconvenient core facilities with our affordable benchtop solution

User-friendly

Train anyone in your lab to become an SPR expert with our user-friendly solution

Real-time data

Publish faster with label-free binding kinetics & affinity data

Low-maintenance

Forget about expensive service contracts so you can focus on your research

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