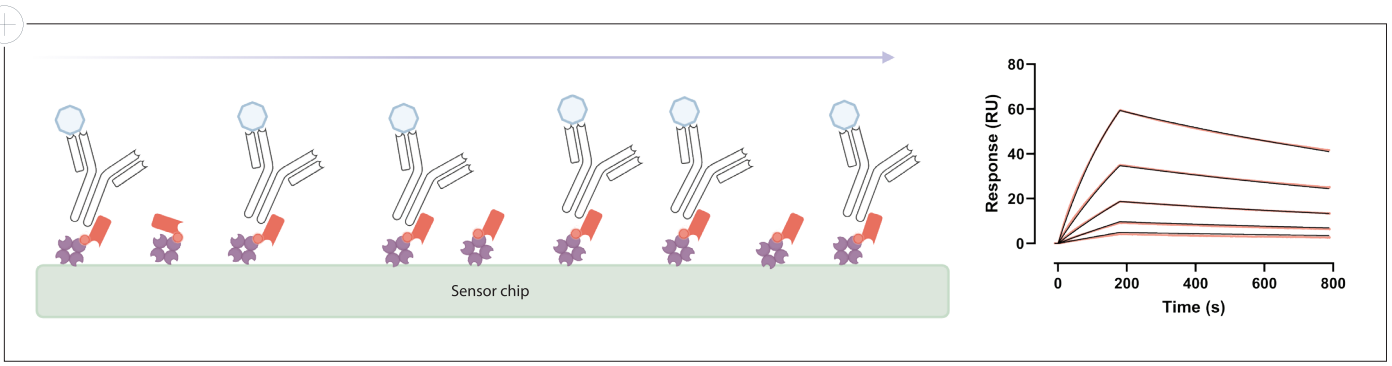
RoukenBio

Discover our surface plasmon resonance capabilities

Throughout the development life cycle of therapeutic molecules, from early-stages right through to manufacturing and quality control, continuous characterisation is essential. This includes initial studies to understand and characterise the mechanism of action where the molecule can be shown to bind its intended target/s through to late-stage development where critical quality attributes are established.



Our unrivalled plug-and-play SPR assays

RoukenBio has established a range of optimised SPR assay platforms that evaluate protein-protein and protein-small molecule interactions which can be used across the drug discovery life cycle including high throughput early ranking studies to identify candidates of the required characteristics through to highly robust assessments that deliver exceptional accuracy.

These platforms can be considered as “plug and play” once the optimum setup conditions have been established for new molecules and standard customisation protocols are available to quickly establish new methods.

Why choose RoukenBio to investigate your ligand-analyte interaction?

- **These assays have been developed in house at RoukenBio**, meaning our scientists have intimate knowledge of the development process, what works technically (and what doesn't), and how to best tailor the assay to answer your scientific question.
- **SPR assays are performed using one of our two Biacore 8K instruments,** a state-of-the-art instrument and a gold standard for the characterisation of biotherapeutics. With eight needles and eight corresponding channels (each with a reference surface) this instrument decreases the time to results compared with single needle counter parts.
- **A high throughput, data rich assay:** performed using up to 4 x 384-well plates, a full kinetic analysis (KD, ka, kd) can be rapidly obtained.
- **Low sample consumption:** this means costs are minimised for characterising valuable molecules where often large numbers of samples are available for testing but only in limited quantities.
- **Custom assays for custom molecules:** with expertise in the development and optimisation of SPR-based assays we offer project-tailored solutions to ensure your interaction is characterised successfully.
- **Historical data to guide assay design:** with a diverse range of SPR assays that have been successfully applied to several customer projects from characterisation through to qualification. We draw on this knowledge to ensure that you have the best assay design possible.
- **Synergistic SPR assays:** we have a flow of optimised and customisable SPR assays that can follow your molecule throughout the development process. Once a molecule has been identified from screening, we can perform kinetic and affinity analyses, epitope binning experiments, Fc-receptor binding, concentration determination and more.
- **HeliXcyto assays:** Discover our direct cell binding capabilities for real-time dynamic monitoring of the kinetics of molecular interactions in their native cellular environment.

Find out more by downloading our SPR slide deck:

RoukenBio - The CRO redefined

Backed by our brilliant minds, we have turned the traditional CRO model on its head, by fostering a collaborative and personalised approach. Our mission is simple:

Solve problems. Deliver quality data. Propel your drug discovery breakthroughs.

United by a passion to make sense of complexities and overcome challenges, we apply our specialised knowledge to big-picture thinking. We will explore every option to deliver over and above for your project.

We are thought leaders with a deep understanding of immunology, bioassays, molecular biology and a track record of groundbreaking discoveries and novel cell-based tools.

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