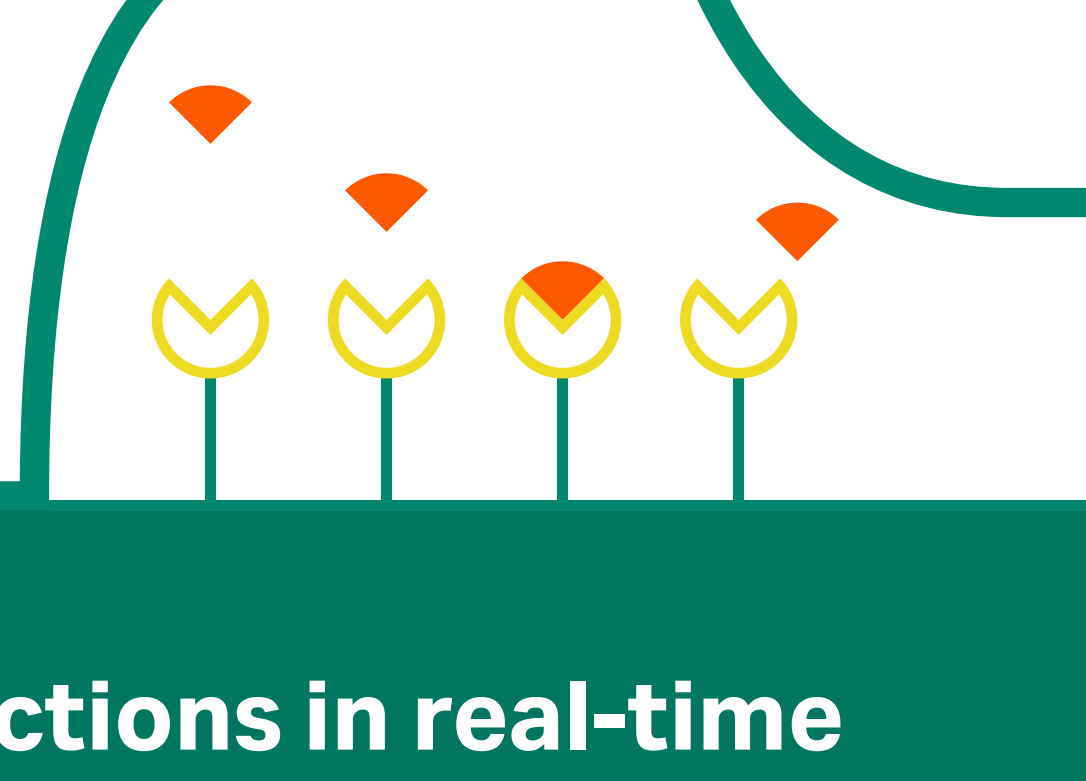


Surface plasmon resonance (SPR)

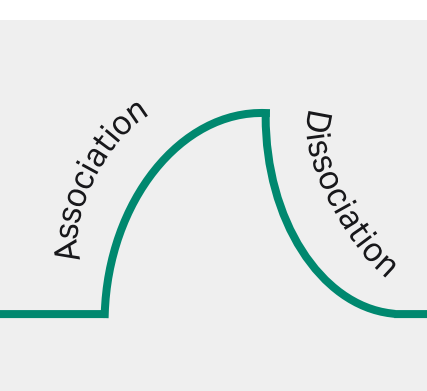
Visualize your research



View molecular interactions in real-time using SPR label-free technology

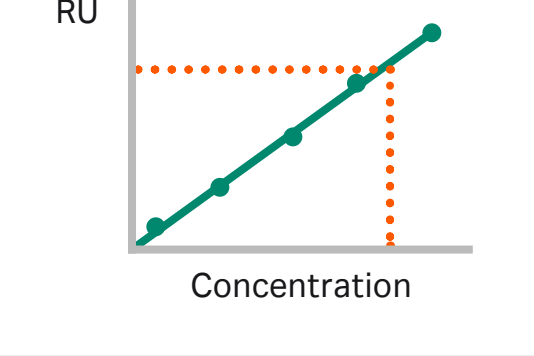
Affinity

Reflects the binding strength.



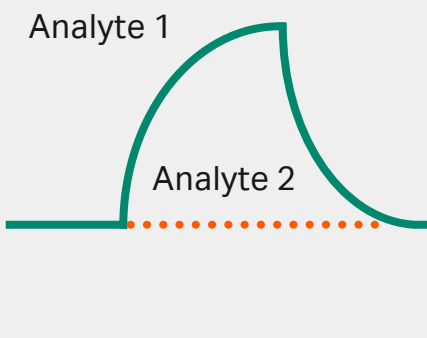
Kinetics

How fast/slow a complex forms and dissociates.



Concentration

Determine concentration of active analyte.



Specificity

Is the molecule specific for its target?



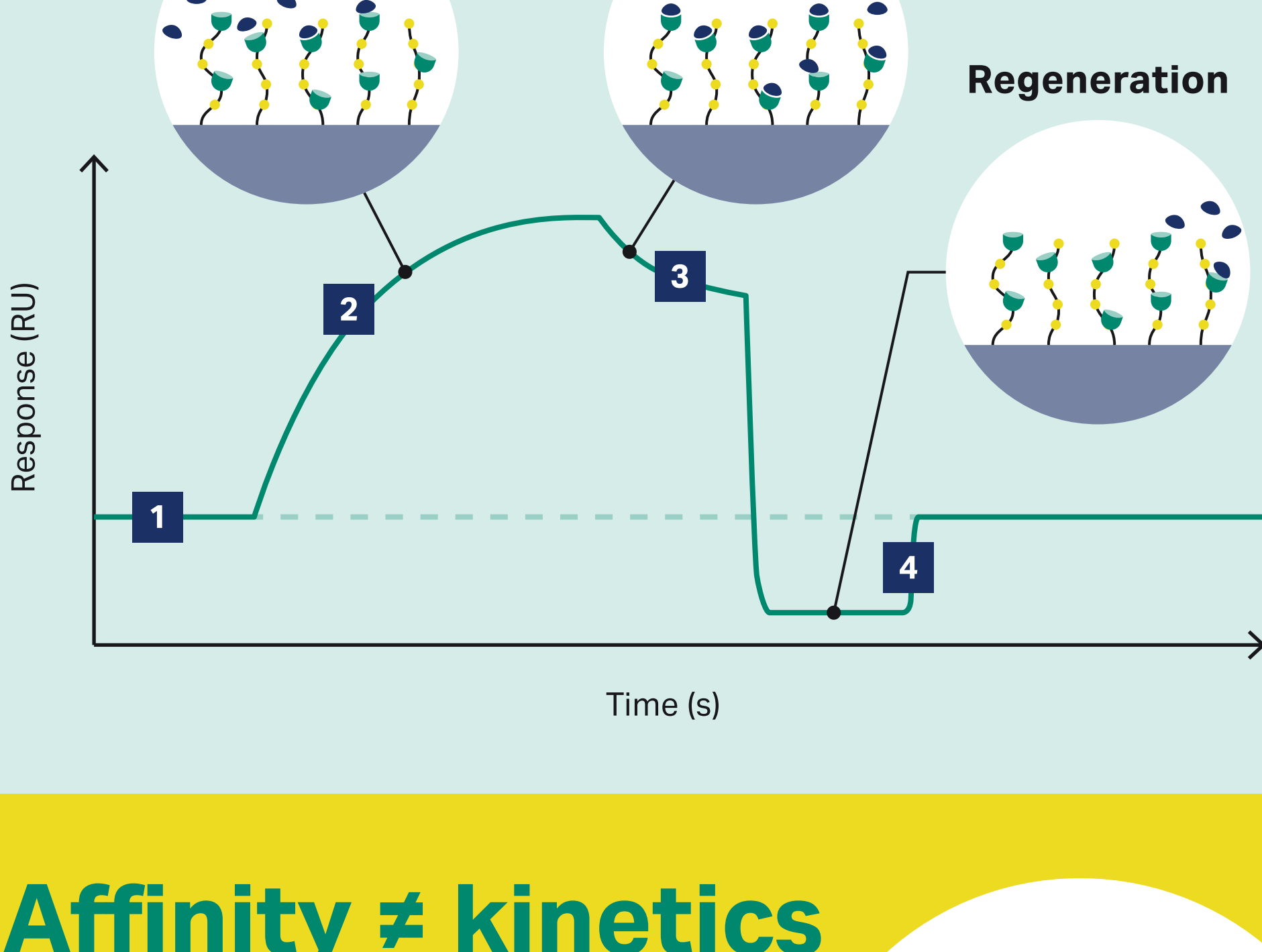
Comparability

Similar to reference product?



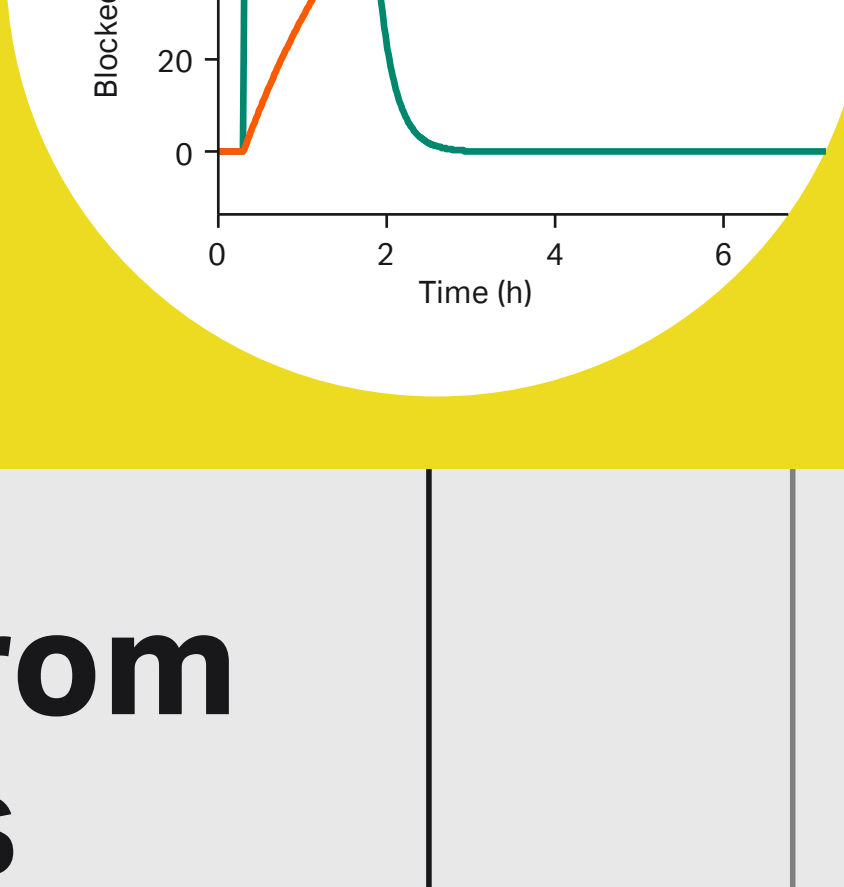
Ligand – analyte binding. In real-time.

- 1 Ligand is attached to sensor surface. Buffer flows over the surface to establish baseline.
- 2 Analyte in solution is injected. Binds to ligand to form a complex.
- 3 Analyte injection ends. Complex starts to dissociate from ligand.
- 4 The surface is regenerated and sensorgram returns to baseline. Next analyte can be measured.



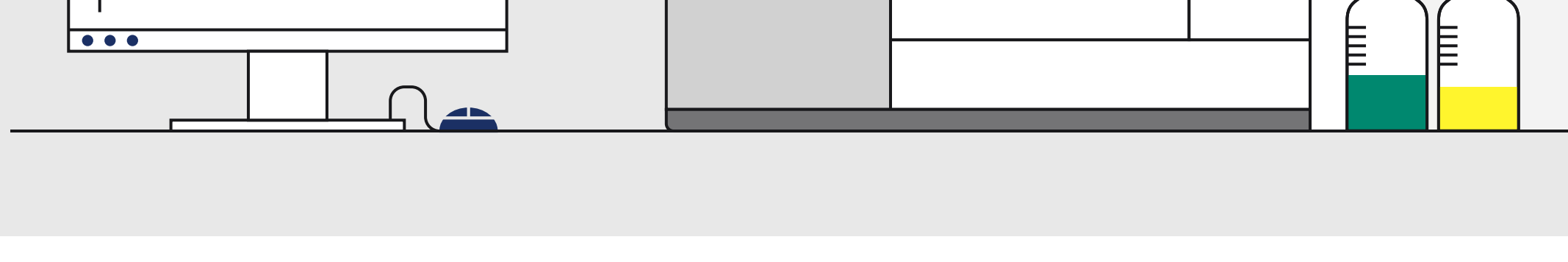
Affinity ≠ kinetics

- Green sensorgram shows rapid kinetics: frequent administration of low dose to occupy the target.
- Orange sensorgram illustrates slower kinetics: administration of a high dose occupies the target for a long time.

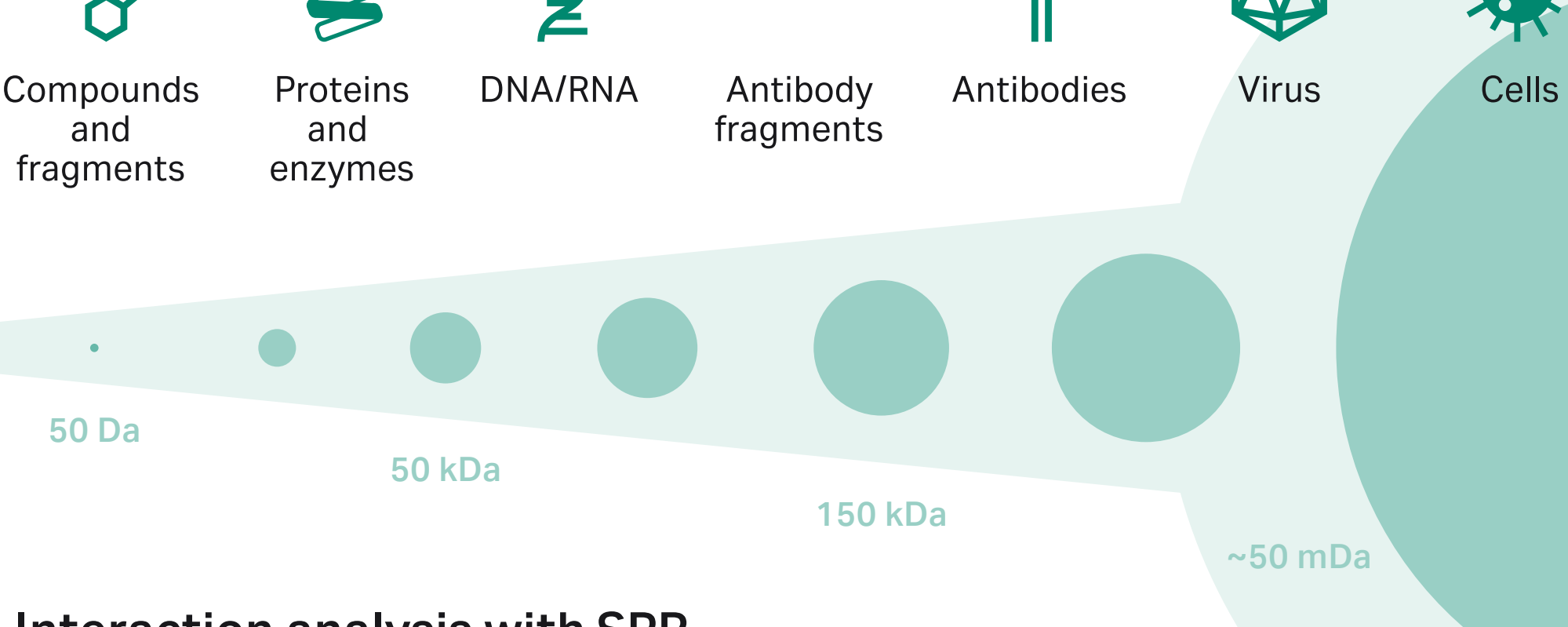


Robust results from difficult samples

- No label/reporter molecules
- Measures even weakly-binding molecules
- Analyze biological samples
- Low sample and reagent volumes
- Fast temperature equilibration
- Multiplexing capability
- Reuse sensor chip surface

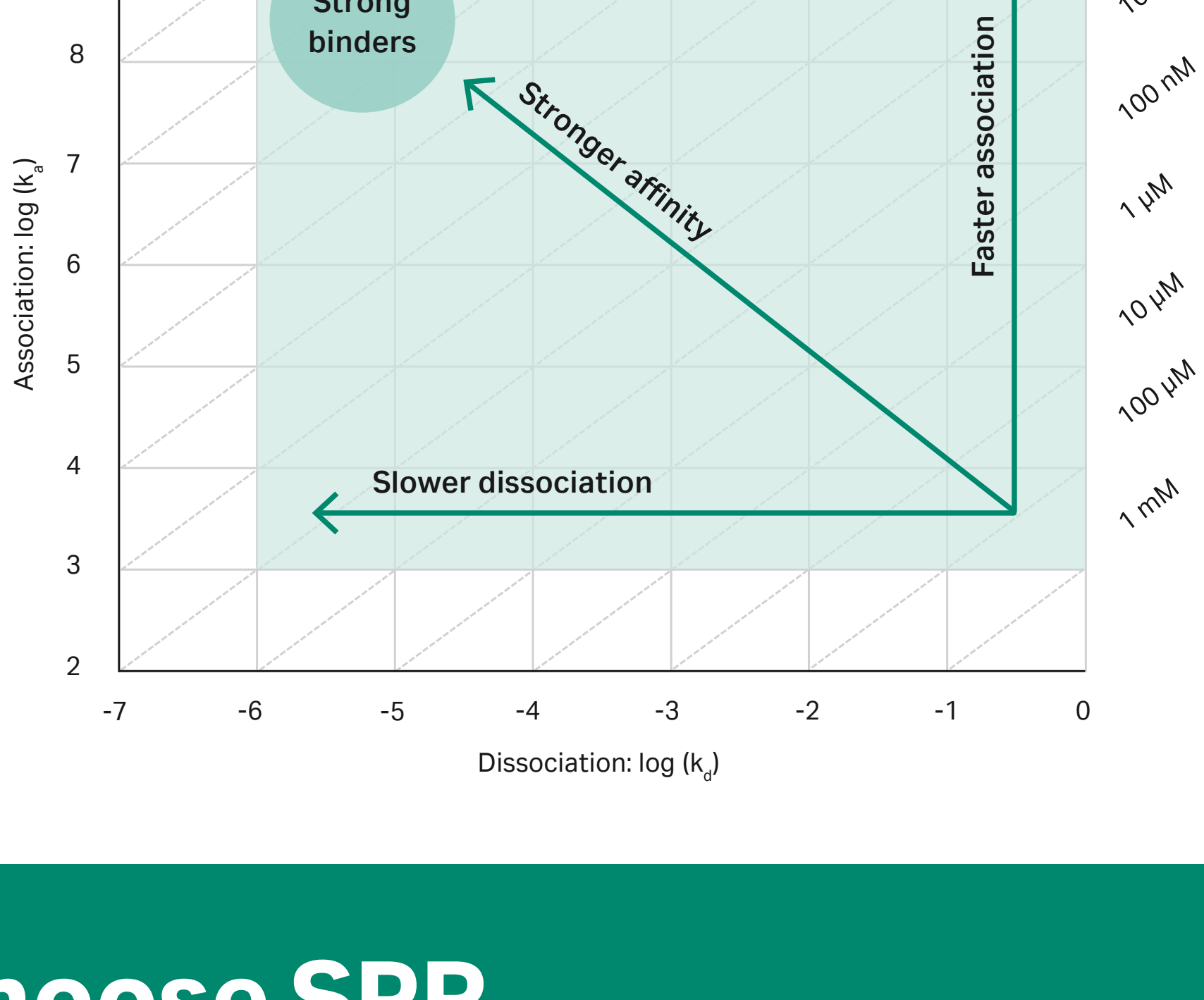


Pure or complex. Small or large.



Interaction analysis with SPR for challenging samples including cell culture, serum, and plasma.

Measure a broad range (µM to pM) of on/off rates for molecules and samples.



Choose SPR and Biacore™ systems

From research to drug discovery, development to QC.

60 000
Recognized technology
 Biacore™ systems are cited in more than 60 000 publications.

Extensive support
 Easy access to assay set-up tools and our application scientists.

Ease of use
 High-quality data with limited know-how. Over 60% of surveyed users are extremely satisfied with ease of use, 40% are satisfied.

Innovation
 Over 90% of survey responders believe we have expertise and provide innovative solutions in the label-free interaction analysis market.

90%

Robust and reproducible
 In a market survey of more than 100 Biacore™ system users, over 90% of responders are satisfied with the robustness and reproducibility of our systems. Over 50% are extremely satisfied.



Source: Label-free interaction analysis (LFIA) instrument tracking study 2021. Cytiva.

More learning tools at [cytiva.com/biacore](https://www.cytiva.com/biacore)