

Make your SPR workflow smoother, more efficient, and less costly with Tycho

Increase your surface plasmon resonance productivity by optimizing your protein samples with Tycho - in only 3 min and using only 10 μ L of sample

Surface Plasmon Resonance (SPR) provides researchers with in-depth understanding of molecular interactions. To achieve this goal, experiments must be run under optimal conditions - from sample preparation and immobilization, to the actual run, all the way to chip regeneration. With Tycho, find these optimal conditions rapidly and reliably in all steps of the SPR workflow.

"We always test proteins on Tycho before starting our SPR assays, to make sure it's worth it."

Edoardo Fabini, PhD,
Nerviano Medical
Sciences, Nerviano (Italy)



Be confident in your SPR results

Have you ever been puzzled by your data? Tycho can show you whether your protein is functional, and whether your new protein batch is as good as the last one. Find out before you even start your experiment, so you don't have to guess what happened.



Free up valuable time on the SPR system

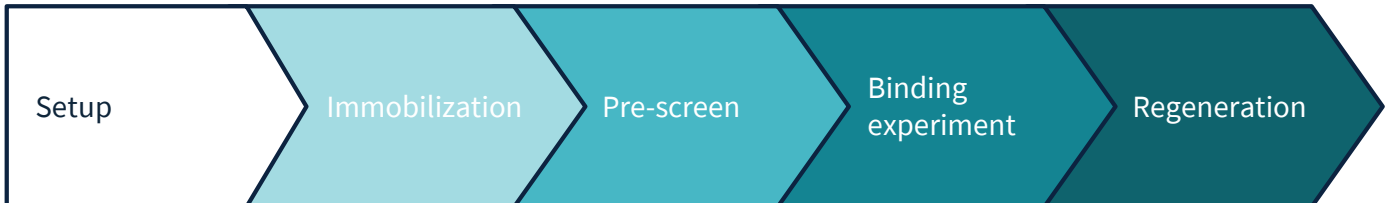
Speed up your assay development by using Tycho to figure out the best experimental conditions. With the insight gained from a Tycho run, you'll get your SPR assays run faster, and you'll need less time on the SPR system which frees it up for somebody else to use (or for you to run even more assays!).

Don't pay for unnecessary troubleshooting

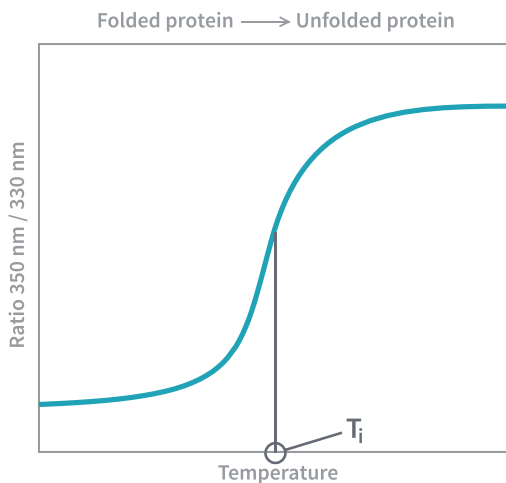
When you get questionable results, you may go looking for the problem in the SPR system. Wouldn't it be great to know if the sample is the issue rather than the SPR system? By using high quality protein in your experiments, you can reduce the need for expensive troubleshooting, and keep your costs and downtime low.

Adopt Tycho into all steps of your SPR workflow

With Tycho, make sure your proteins are functional for the whole assay, instead of immobilizing again and again, and spending money on new sensor chips. Check whether your immobilization buffer maintains your protein's activity, and avoid immobilizing unfolded and nonfunctional protein. Run thermal shift assays on Tycho to pre-screen potential binders to your target, so you don't have to waste your valuable SPR time on non-binders.



- > Check protein functionality in all buffers
- > Confirm similarity of protein batches
- > Verify protein functionality in low pH conditions (pH scouting)
- > Check protein behavior at low concentrations
- > Analyze effect of tag on protein functionality
- > Select only those analytes that are worth examining more closely
- > Understand and make the most use of your assay window
- > Find suitable binding and running buffers
- > Find suitable regeneration buffer



3 minutes, up to 6 samples, and only 10 μ L per sample. It's that easy.

Tycho utilizes a fast, defined thermal ramp to unfold a protein and records the protein's intrinsic fluorescence in the process. The resulting unfolding profile tells you if your protein is structurally intact or properly folded. Compare unfolding profiles to understand how a buffer change affects your protein, or how your current batch looks compared to the last one. Find out about functionality, similarity, presence, concentration, and purity - all from a single dip-and-read experiment.

Get Tycho for your lab

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