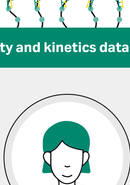
cytiva

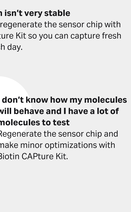
Biotin CAPture Kit

Ready-to-go interaction analysis



Quick, flexible high-quality affinity and kinetics data

What's holding you back?



1. **Assay development is complicated and takes a long time**
With Biotin CAPture Kit you don't need to worry about pH scouting, covalent attachment, or regeneration conditions.

2. **It's a new technology – I might make a mistake**
Predefined software methods help prevent mistakes.

3. **My protein isn't very stable**
It's easy to regenerate the sensor chip with Biotin CAPture Kit so you can capture fresh protein each day.

4. **My time on the instrument is very precious – it is heavily booked and I pay for time**
Biotin CAPture Kit can provide high quality data and results in one day.

5. **I don't know how my molecules will behave and I have a lot of molecules to test**
Regenerate the sensor chip and make minor optimizations with Biotin CAPture Kit.

Get started with Biotin CAPture Kit

Biotinylate ligand

Express molecule with Avi-tag. **Remove excess biotin.**

Top tip: Use Surface Density Calculator, application guides, and lab procedures to tailor your run conditions to your needs.

Open predefined method on Biacore™ SPR instrument and follow ready-to-use procedure for Biotin CAPture Kit

Analyze results using Biacore™ Insight Evaluation Software

Top tip: Use Biacore™ Simul8 tool to check your results.

Continue with multiple interactions. Or regenerate and store your sensor chip ready for the next analysis!

Reversible capture of biotinylated ligands

Biotin CAPture Kit contains Sensor Chip CAP, which is based on CM5 matrix modified with oligonucleotides (oligos):

1. Streptavidin (SA) conjugate is captured via oligo hybridization.
2. Biotinylated ligand binds to SA.
3. Measure analyte association and dissociation.
4. Standardized regeneration removes Biotin CAPture Reagent and the biotinylated ligand.

Biotin CAPture Kit + Biacore™ Single Cycle Kinetics (SCK)

- Biacore™ Single Cycle Kinetics (SCK) regularly provides useful results on the first attempt
- Affinity and kinetics determined in a single analysis cycle
- Ability to use less Biotin CAPture Reagent and ligand sample
- Faster time to result compared to Biacore™ Multi Cycle Kinetics (MCK) experiments

When to use Biotin CAPture Kit:

Limited time
you have limited time or prior knowledge

Unstable ligands
you work with unstable ligands

Many ligands
you need to easily change the captured ligand

Minimize cost
you want to minimize sensor chip costs for short assay runs

Change to Sensor Chip SA or Sensor Chip NA when:

- you have a protein that binds to DNA or oligonucleotides
- you use an enzyme that breaks down DNA
- you measure nucleic acids

Explore more about Biotin CAPture Kit

More learning tools at cytiva.com/biacore

cytiva.com

CY28440-07Jun22-IG