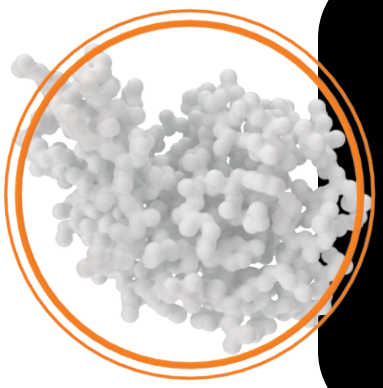
Flow Induced Dispersion Analysis for Small Molecule - Protein Interactions

Fast, accurate & reliable data to accelerate your biophysical insight.



The main FIDA measurement is absolute size - hydrodynamic radius (Rh). Its precision is further enhanced with Lambda Dynamics & binding related intensity change readouts. These FIDA measurements provide valuable information about, amongst others, binding, solubility, conformational changes, sample loss. Read more below:

ABSOLUTE SIZE

The primary FIDA measurement is hydrodynamic radius (Rh).

Based on direct measurements of size changes, FIDA provides an array of information about stability, affinity, and kinetics. With the highly sensitive FIDA detectors, changes below 5% and, in many cases, down to 1% can be detected. Thereby, FIDA offers a unique ability to get biophysical insight based on direct structural measurement.

Fidabio

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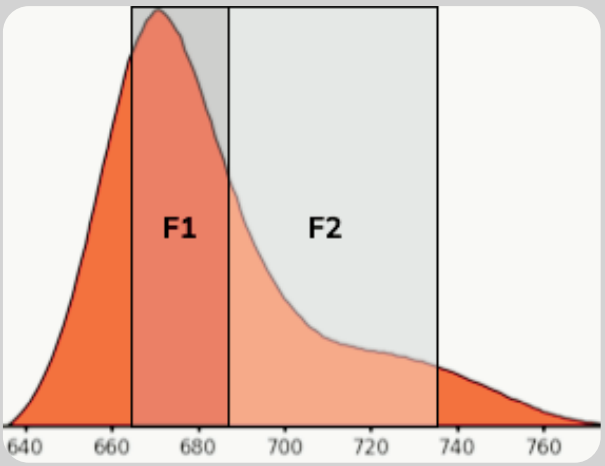
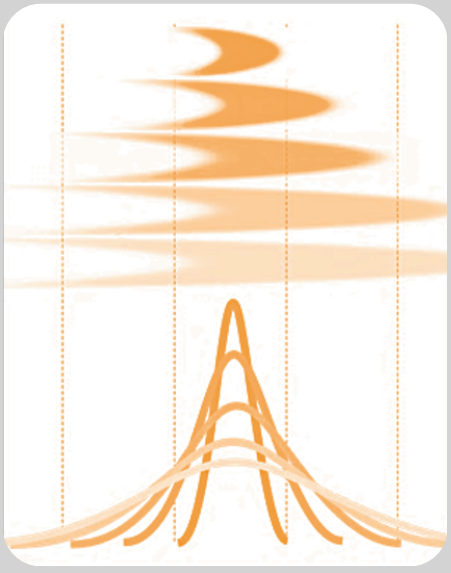


LAMBDA DYNAMICS

Sensitivity enhancement through wavelength shift measurements.

To increase data reliability, users with Fida Neo detectors can also take advantage of ratiometric measurements to further enhance the sensitivity when analysing small-molecule interactions. We call this proprietary technology **FIDA Lambda Dynamics, or just FIDA LD**. It is based on fluorescent ratiometric measurements derived from standard FIDA experiments. Read more on fidabio.com



BINDING RELATED INTENSITY CHANGE

Further sensitivity enhancement through fluorescence changes.

When doing FIDA analyses, the FIDA software also automatically collects the changes in the fluorescence intensity. It measures changes in fluorescence intensity that can occur when molecules (such as proteins or small ligands) bind to each other, or proteins change their conformational state due to environmental changes. We refer to that as FIDA BRIC. Read more on fidabio.com