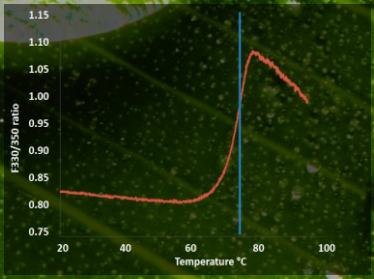
Are you interested in protein folding and stability?

nanoDSF

Advanced Differential Scanning Fluorimetry

Work with the experts!

- close to native
- freedom of reaction conditions
- robust and sensitive
- dual-UV system
- rapid analyses
- small sample volume
- ultra-high resolution
- wide temperature range



We characterize your protein for you!

2bind
molecular interactions

nanoDSF is a novel label-free differential scanning fluorimetry method used to monitor protein folding and stability.

The technique is based on the measurement of intrinsic tryptophan/tyrosine fluorescence at 330 nm and 350 nm wavelength.

Upon unfolding of the protein by chemical or thermal treatment, the fluorescence intensity and the emission peak change.
These changes are monitored and used to calculate the melting temperature of the protein.

Besides the ultra-high resolution (up to 36000 data points per measurement), the technology allows us to study proteins at low sample consumption (only 10 µL), in a broad concentration range (5 µg/mL to 200 mg/mL) and at free choice of buffers and detergents.

Therefore, 2bind nanoDSF services are especially useful in antibody engineering, membrane protein characterization, formulation development and protein quality control.

1. Stability assays
   - optimization of formulation conditions
   - buffer screening to identify optimal conditions
   - detergent screening for membrane proteins

2. Biophysical characterization assays
   - antibody / antibody-drug conjugate characterization
   - determination of multiple domain unfolding transitions

3. Quality control assays
   - long term stability
   - forced degradation

4. Ligand binding assays

Contact us

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