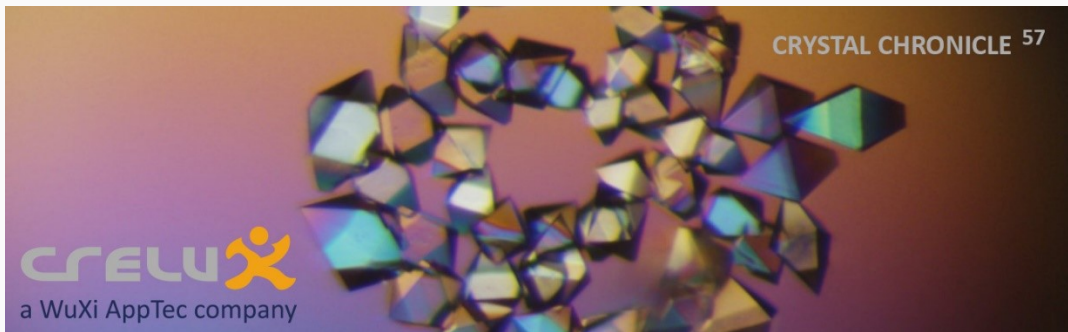


Contents #57: nanoDSF - a new era of protein stability analytics



Our solutions for your biologics development

The development of biologics requires precise biophysical analytics at all stages of the development.

With nanoDSF we measure protein melting curves truly label-free by analyzing intrinsic tryptophan fluorescence. By using nanoDSF, proteins can be measured in any buffer containing any type of additives (e.g. detergents). Moreover, the dynamic range of simultaneously measurable concentrations goes from 150 mg/ml down to 5 µg/ml in a working volume of 10 µl. The technology is used for analysis of protein quality and stability, with applications comprising protein engineering, formulation development and batch-to-batch comparison.

We analyze for our clients:

T_m - Thermal unfolding

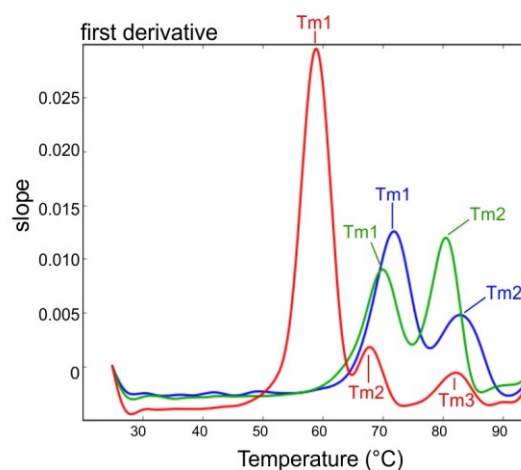
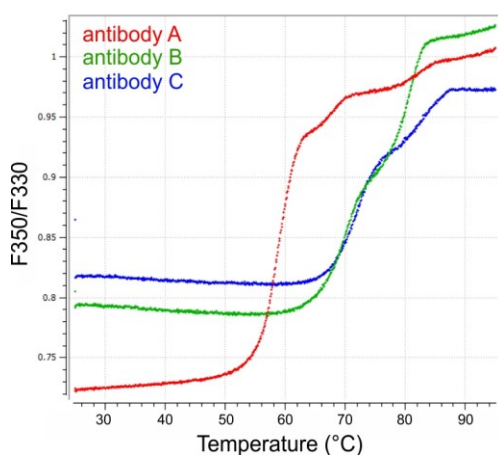
T_{agg} - Temperature onset of aggregation

C_m - Chemical unfolding

DeltaG - free folding energy and prediction of long term stability

CRELUX is using the Prometheus NT.48 from [NanoTemper](#) with its advantageous low sample consumption and a broad concentration range from ng/mL to mg/mL concentration range.

Get your protein analyzed for aggregation or optimized for stability by the expert CRELUX biophysics team and [contact us](#) now for your individual quote.



Comparison of the different unfolding of 3 antibodies

High-resolution data allow for identification of multiple unfolding transitions.

Other applications include stability screening of antibodies, antibody drug conjugates, membrane-proteins, protein complexes as well as quality control including forced degradation and long-term stability of biologicals.

Advantages of nanoDSF

Native - label and dye free conditions, any buffer

Precise - ultra-high resolution

Fast - 48 capillaries „on-the-fly“ within 3 seconds

Broad – all target classes, concentrations from 5 µg/ml to > 250 mg/ml

Efficient

**Get 10% discount for your nanoDSF quote until October 2017
using the code CC57-DSF**

CreLux does not only offer nanoDSF services for its clients but also uses it for the QC of difficult to express and purify proteins including membrane proteins. We compare the unfolding temperatures (T_m) and aggregation (T_{agg}) of various constructs to quickly select the most promising one. Where required, we also perform a quick buffer optimization screen for the selection of an appropriate detergent for a membrane protein.



nanoDSF measurements are performed with the Prometheus NT.48 device. Courtesy of Nanotemper.

Meet us at the Nordic Life Science Days next week in Malmö

<https://www.nlsdays.com/>

Contact us via the partnering system and get more information about our drug discovery services and solutions for small molecules, biologics and biosimilars

CRELUX is your premium partner for collaborative drug discovery programs, protein supply, X-ray crystallography, biophysical analysis and fragment based screening services.

Please visit our websites at www.crelux.com to learn more about the solutions we are providing to our growing number of clients.

Meet us at

Nordic Life Science Days, September 12-14, Malmö, Sweden

BioJapan, October 11-13, Yokohama, Japan

BioEurope, November 6-8, Berlin, Germany

PSDI 2017, November 12-14, Cambridge, UK



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