**Sample request form Prometheus NT.48**

This sample request form has to be filled out by scientists that want to send their samples to NanoTemper Technologies for testing in Prometheus NT.48 or Prometheus NT.Plex. Please find here below some information regarding assays set up and samples preparation. For any further question, we encourage you to contact:

**Margaret Poczopko (****Malgorzata.poczopko@nanotempertech.com****, +48-883-349-007)**

Assays using the Prometheus NT.48 can be set up in different ways:

* Thermal denaturation curve of your protein in a buffer of choice (Tm): different proteins and protein variants can be analyzed in parallel
* Thermal denaturation curves of your protein in different solution conditions (Tm): different buffers, additives, detergents, etc. can be analyzed in parallel
* In parallel, aggregation onset can be tested for the varying conditions.
* Chemical denaturation curves (Cm and deltaG): the effect of a denaturant of choice can be measured within 3 seconds.

**The following material is needed:**

* **10 µl\*, 1 mg/ml\*\* of the protein containing at least one tryptophan** *(in any buffer)* **per unfolding curve**

\*) If you want to test your samples in different conditions, we recommend to bring more volume.

\*\*) Please note: we recommend starting in this range, but in general the protein concentration may be adjusted from 5 µg/ml to 250 mg/ml

* **10 ml of your buffer** *(in case testing protein dilutions might be interesting, please provide buffer recipe)*
* if applicable: **different additives, detergents, buffer conditions.**

**IMPORTANT NOTE: we do not accept for testing biologically active, radioactive or highly toxic/carcinogenic samples**

|  |  |
| --- | --- |
| Name |  |
| e-mail |  |
| Phone |  |
| Company/University |  |
| Department |  |
| Head of department |  |
| Street  |  |
| Zip code |  |
| PO box |  |
| City |  |
| Country |  |

Contact Information:

Sample description:

Please provide the following information by filling out the table below (add additional columns if necessary):

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Sample 1** | **Sample 2** | **Sample 3** |
| Protein name/code |  |  |  |
| Protein type (membrane protein, antibody, multi-domain protein, etc.) |  |  |  |
| Concentration |  |  |  |
| Volume |  |  |  |
| MW |  |  |  |
| Number of Tryptophanes |  |  |  |
| Number of Tyrosines |  |  |  |
| Buffer composition |  |  |  |

Contact

**NanoTemper Technologies GmbH**

Flößergasse 4

81369 München

Germany

Tel.: +49 (0)89 4522895 0

Fax: +49 (0)89 4522895 60

info@nanotempertech.com

nanotempertech.com