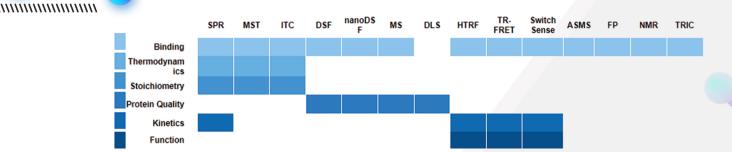


# A Deeper Understanding For Hit Discovery

Biophysical methods are at the heart of modern drug discovery. It validates protein quality control (QC) and improves sample quality and target validation. These methods can be used in screening, hit validation, hit-to-lead and lead-to-candidate development, ultimately optimizing asset pipelines.



To offer expertise at any stage of the molecular discovery program, HitS has created a versatile toolbox combining different biochemical and biophysical methods and assays. It allows the team to measure protein binding, thermodynamics, stoichiometry, protein quality, kinetics, and function.





# **Ready-To-Go Biophysics Assay**



## **Established Assays**

Optimized assay conditions



### **Flexible**

Single/multiply assay in parallel



### **Cost-effective**

Low budget, high quality data



## Fast Turnaround Time

Up to 2 weeks



Established protein construct in house

- Tailored high quality assay grade proteins
- Protein QC:
   SDS-PAGE, aSEC, MS
   Complete protein supply included

## Assay Initiation & Measurements

Established assay conditions

- Established labeling/coupling method
- Published tool compounds
   Up to 3 T<sub>m</sub>s / K<sub>d</sub>s / IC<sub>50</sub>s included

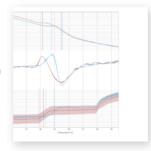
## **Results & Report**

A tabulated report included Extended report available including measured curves, assay conditions, analysis and scientific summary in pdf-format

## Show case:

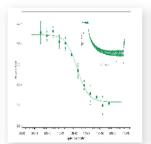
Activity-Validated Assays of NLRP3 vs. MCC-950

- High quality assay grade protein produced in house
- Protein QC: SDS-PAGE, aSEC, MS

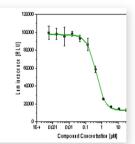


LabelFree TSA
(nanoDSF)
Impact of MCC-950 on
NLPR3 thermal stability
Control: DMSO

MCC-950: 1 μM



TRIC/Dianthus
Binding affinity of MCC-950
to NLPR3
Labeled MST assay
K<sub>D</sub>: 180 nM



ADP Glo assay Impact of MCC-950 on NLRP3 activity IC<sub>50</sub>: 450 nM



## 6

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