

Are you looking for binding parameters?

MST

MicroScale Thermophoresis

Work with the experts

robust and sensitive

rapid analyses

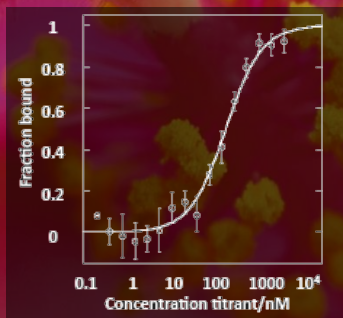
wide temperature range

freedom of reaction conditions

small sample volume

live quality controls

no surface immobilization



We analyze molecular interactions independent of the binding partner size



1000
kDa



150
kDa



1 Da

MicroScale Thermophoresis Technology (MST) is a novel method that permits the quantitative analysis of molecular interactions with an unmatched sensitivity.

The technique is based on the movement of molecules in a temperature gradient ($\Delta t = 2 - 6^{\circ}\text{C}$).

MST measurements are performed in solution without immobilization and at low sample consumption (only $6\mu\text{L}$). The fast and precise measurements offer a dynamic affinity range from pM to mM .

The free choice of buffers enables us to perform experiments in close to native conditions, like sera or lysates.

MST allows also the real time detection of aggregation, sticking and precipitation effects.

2bind MST assays are optimized for the identification, characterization and optimization of molecular interactions, therefore, these are of special interest for drug development, aptamer generation and antibody discovery.

1. Binding assay
2. Screening assays for binding partner
3. Stoichiometry assays
4. Thermodynamic assays
5. Competition assays
6. Multiple binding partners assays
7. Serum stability assays



Contact us



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