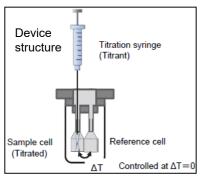
ITC measurements of biomolecular interactions

Isothermal Titration Calorimetry (ITC) measures heat change during biomolecular binding, determining binding constants (K_d), stoichiometry (n), enthalpy (ΔH), and entropy (ΔS). The thermodynamic profile enables prediction of the binding form between biomolecules.



Analyte

Small molecular drugs, Peptides, Nucleic acids, Proteins, Liposomes, etc.

Characteristics

- Determination of the binding form
- No modification such as immobilization and labeling
- ·No limit on molecular weight
- •nM to μ M (K_d) interactions can be measured.

Application

Evaluation of the binding affinity Prediction of the binding form Drug Screening Optimization of lead compounds Enzyme kinetics Quality control of proteins

Quality control of proteins

Critical micelle concentration, etc.

