dynamic
BIOSENSORS

switchSENSE®

Multi-parameter biophysical analysis
of molecular interactions

k_{ON} | k_{OFF} | K_D | IC_{50} | D_H | T_M | ΔG | ΔH | ΔS | k_{CAT} | K_M | U

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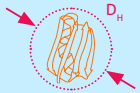
	SPR Surface Plasmon Resonance	BLI Biolayer Interferometry	ITC Isothermal Titration Calorimetry	MST Microscale Thermophoresis	switchSENSE®
Measurement signal(s)	Refractive index	Refractive index	Heat	Thermo-phoresis	Fluorescence & Molecular Dynamics
Affinity	●	●	●	●	●
Kinetics	●	●	○	○	●
Thermodynamics	●	○	●	○	●
Protein diameter	○	○	○	○	●
Conformational changes	○	○	○	○	●
Melting temperature	○	○	○	○	●
Avidity and high affinity (K_D<10 pM)	○	○	○	○	●
Dual-signal	○	○	○	○	●
Multi-ligand immobilization	○	○	○	○	●
Advanced ligand density and stoichiometry control	○	○	○	○	●
Kinetics of DNA-modifying enzymes	○	○	○	○	●

switchSENSE® provides **higher information content**
than any other technology for molecular interaction analysis

Unique measurement capabilities → Highly relevant **USPs**

STRUCTURE MEANS FUNCTION
To understand the mode of action of drugs it is necessary to analyze conformational changes in proteins.

USP switchSENSE® is the only biosensor capable of measuring protein shape (friction).



NEXT GEN ANTIBODIES FOR IMMUNOTHERAPY
Highly specific antibodies are the key to cancer immunotherapy. To this end, multi-specific antibodies are in development that can recognize cancer cells with targeted selectivity.

USP switchSENSE® is the only measurement technology enabling the researcher to characterize multi-specific formats regarding their selectivity to multiple targets.

For further information and application examples, please visit our website www.dynamic-biosensors.com/switchsense/**applications**/