Intermolecular Interaction Analysis We introduced the latest SPR instrument, Sierra SPR-24!!

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Sierra SPR-24 has industry leading SPR performance and supports various intermolecular interaction analyses including high-throughput screening and kinetics analysis. •High-throughput 24 sensor spots (3 spots/channel x 8 channels)

Immobilization and sample injection can be conducted individually per spot.



Bruker/ Sierra SPR-24 Pro

Screening of 24 ligands by a single injection.

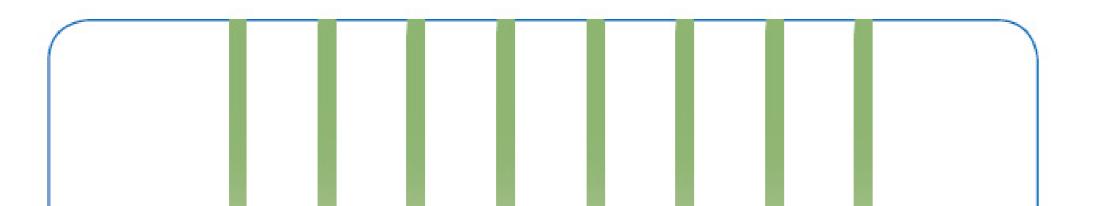
High-sensitivity

Able to perform interaction analysis of small molecular compounds as fragments Molecular-weight ≥ 100 Da

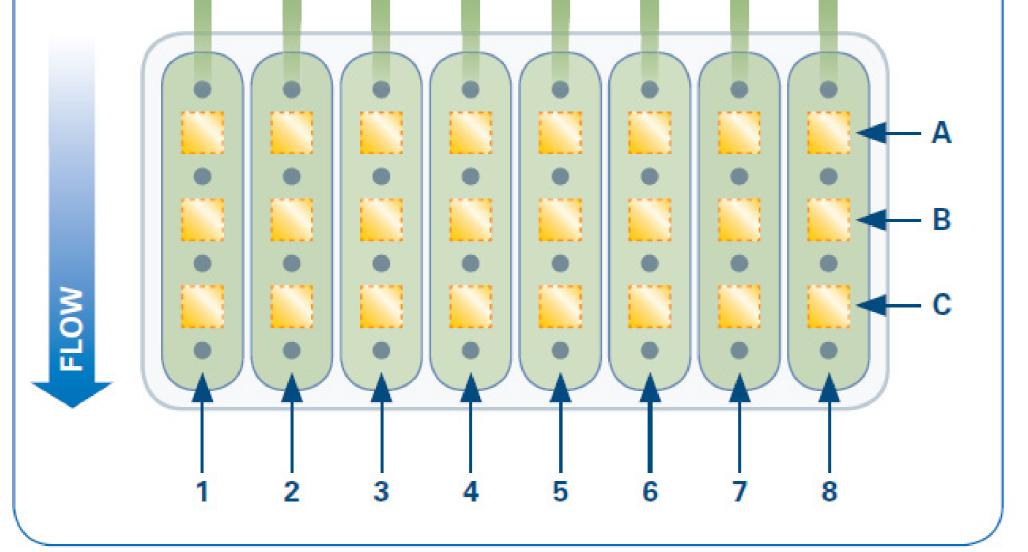
Analysis example utilized numerous sensor spots

SICK (Single Injection Cycle Kinetics) method

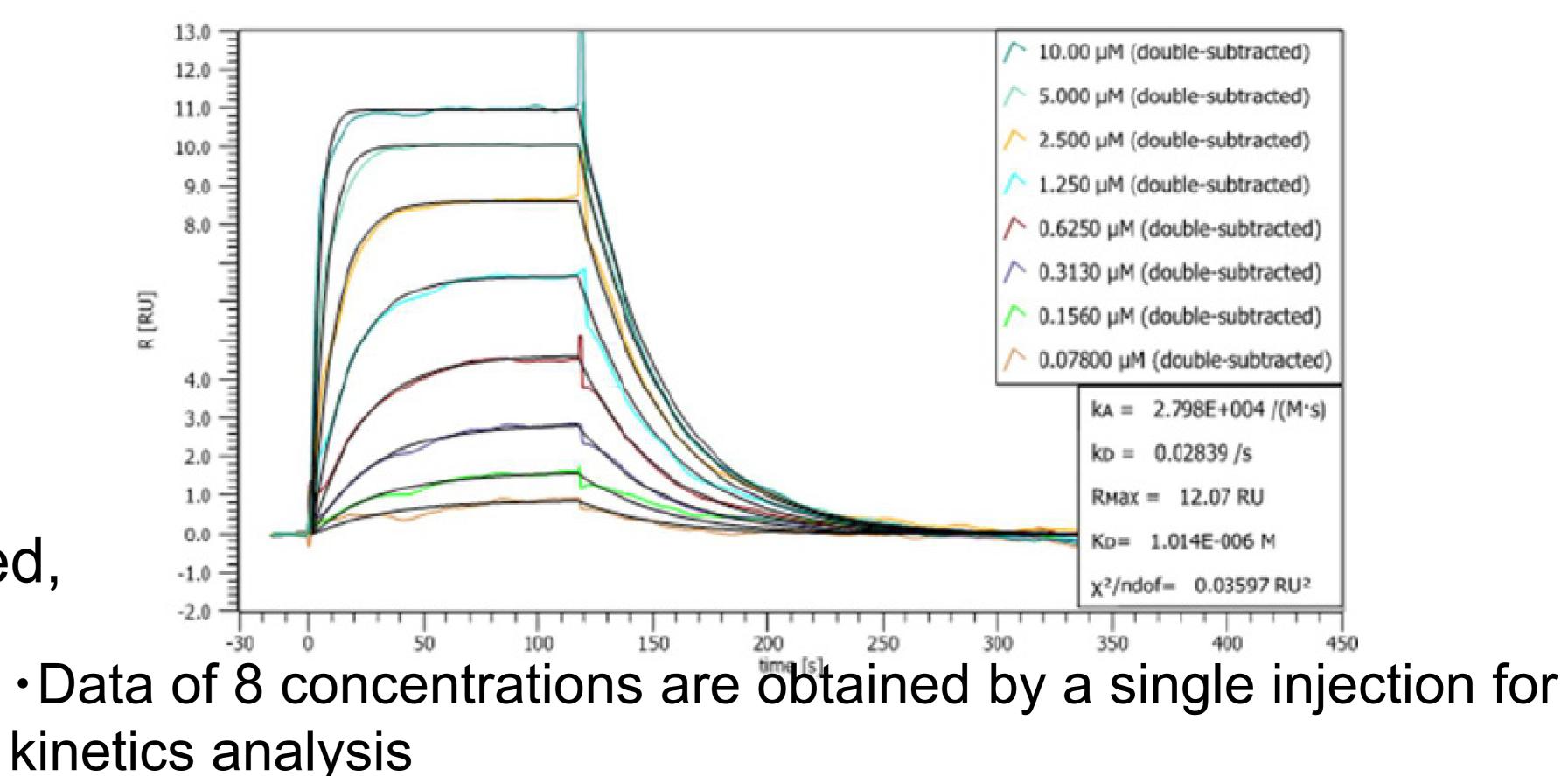
A method realizes a speedy kinetics analysis by injecting analyte solutions of different concentrations to multiple sensor spots where the same ligands are immobilized.



Ligand : carbonic anhydrase II (30 kDa) Analyte : small molecule inhibitor (201 Da)



In 1 to 8 of column A, ligands are immobilized, and analytes of different concentrations are injected at the same time.



•Reproducibility between channels is high, and results equivalent to reference documents can be obtained.

Applicable to ligands that are hard to regenerate or easily inactivated.



- Screening and kinetics analysis of small molecular compounds for target proteins
- Screening and characterization of biopharmaceuticals
- Various intermolecular interaction analyses of compounds, peptides, nucleic acids, proteins, and sugars
- Comprehensive intermolecular interaction analysis combined with other methods. ITC, NMR, MS, CD, and high-speed AMF

Please feel free to contact the following sales departments:

Toray Research Center, Inc.

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