



HDX Solution

- Unlocking insights in protein structure conformation

Are you looking for a way to identify structural hotspots within your potential biotherapeutic? Or searching for a solution to understand structural conformational changes occurring during formulation or storage? Do you want to know more about protein-ligand (drug/protein) interactions?

The Bruker HDX Solution tool kit delivers automated and reliable HDX-MS workflows with correct monoisotopic accurate-mass readout to fully explore quantitative results from H/D ratios. Combining the HDX Solution with the maxis II ETD UHR QTOF with its market-leading ETD fragmentation capabilities opens up a new era in HDX-MS studies, proving enhanced specificity at the residue level and the option to perform top-down HDX-MS studies.

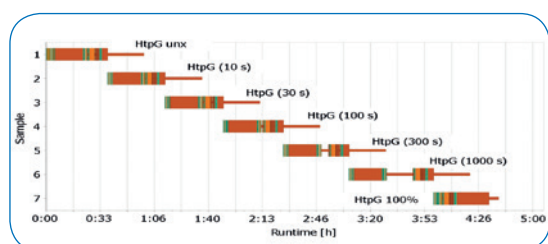
Researchers can access structural insights about their biomolecules reliably and with greater certainty and confidence.

Fast, Reliable, Automated Structural Conformation Characterization

The Bruker HDX Solution is a complete toolkit combining the LEAP HDx PAL, a UHPLC pump, the Bruker maXis II ETD and Sierra Analytics HDExaminer software.

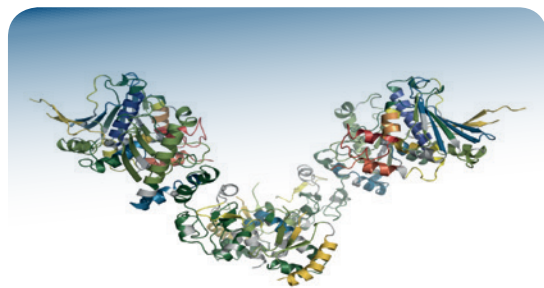
Robustness and Reliability Built-in

The most advanced vendor independent HDX system, the LEAP HDx PAL automates the HDX experimental workflow, schedules and performs labelled experiments, followed by quenching and injection under cold conditions.



Innovative, intelligent sample scheduling

The innovative scheduling software maximizes chromatographic throughput and consequently laboratory productivity through the intelligent organization of the sample preparation steps including labelling, incubation, digestion and quenching.

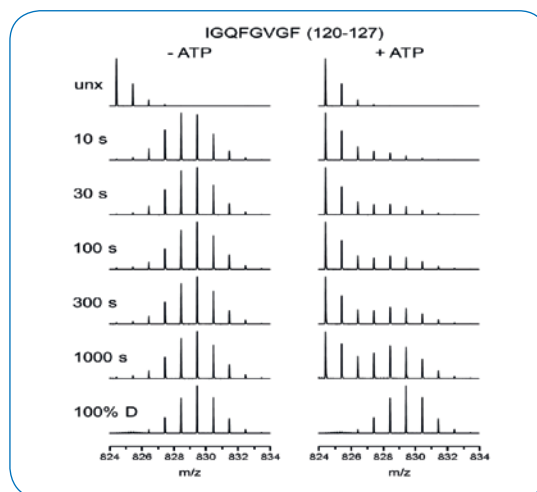


Visualization and Insights

By linking with protein structure visualisation programs, such as PyMol, conformational changes can be readily mapped onto the protein structure.

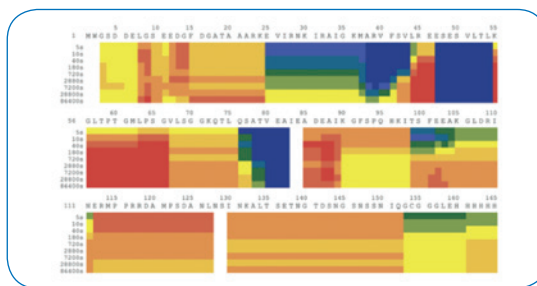
High quality chromatographic and MS data

Chromatographic separation under UHPLC conditions followed by mass spectrometric detection using the Bruker maXis II with its sub-ppm mass accuracy, high sensitivity and isotopic fidelity guarantees high quality data and ultimately confidence in the H/D ratios.



The most-widely used HDX-MS data interpretation software

Sierra Analytics HDExaminer software enables researchers to obtain a comprehensive picture of the deuterium uptake behaviour with an easy-to-use environment.



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Further Reading and
Information

