

Expand Your Reach Into the **Plasma** **Proteome**

PQ500 OFFERS ABSOLUTE QUANTIFICATION OF HUNDREDS OF HUMAN PLASMA PROTEINS THROUGH COMBINATION OF QUANTITATIVE CAPABILITIES OF MRM/PRM AND THE COMPREHENSIVENESS OF DIA



Why Plasma?

Plasma is the most frequently investigated biological fluid in biomedical research mainly due to the easy access and the wealth of information it offers. Quantitative levels of selected plasma proteins can provide a snapshot of the health status of an individual and offer insights into disease onset or therapy response. These factors make plasma the model system of choice when investigating novel medical treatments and diagnostics.

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Comprehensive coverage of the plasma proteome is often challenged by the low multiplexing possibilities and limited number of target proteins that can be accurately quantified. To that extent researchers are faced with many unanswered questions when it comes to plasma proteomics research.

To address the limitations of currently available tools for proteomics research, Biognosys' scientists have developed the PQ500 for absolute quantification of more than 500 plasma proteins. PQ500 consists of hundreds of stable isotope labelled standard peptides (SIS) that were carefully selected for best performance and stability. Using the technology that is better known from targeted proteomics (MRM/PRM), researchers can now benefit from deep and comprehensive coverage of the plasma proteome by combining the PQ500 with their data independent acquisition (DIA) workflows.

PQ500 offers significant benefits for the researchers:

- Compatibility with Biognosys PlasmaDive and PlasmaDeepDive kits
- Suitability for a variety of workflows with a choice of the optimal reference peptide
- Reliable quantification under different sample conditions with high- and low response peptides

Best in class tools for plasma proteomics research



Ease of use

Complete workflow from sample preparation to data analysis



Comprehensive Coverage

Protein target lists covering more than 500 plasma proteins for native and depleted plasma



Unmatched Multiplexing capacity

Allowing the quantification of hundreds of proteins per plasma sample in one single run



Higher throughput

Enabling the analysis of thousands of samples by seamless adaptation to automated liquid handling systems



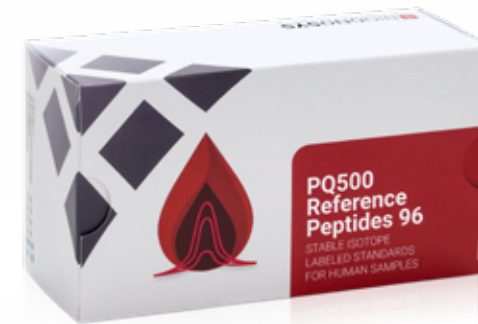
Proven Technology

Based on cutting-edge discovery and targeted proteomics mass spectrometry technology developed in-house



Personalized support

Biognosys scientists support you with establishing a complete workflow in your laboratory



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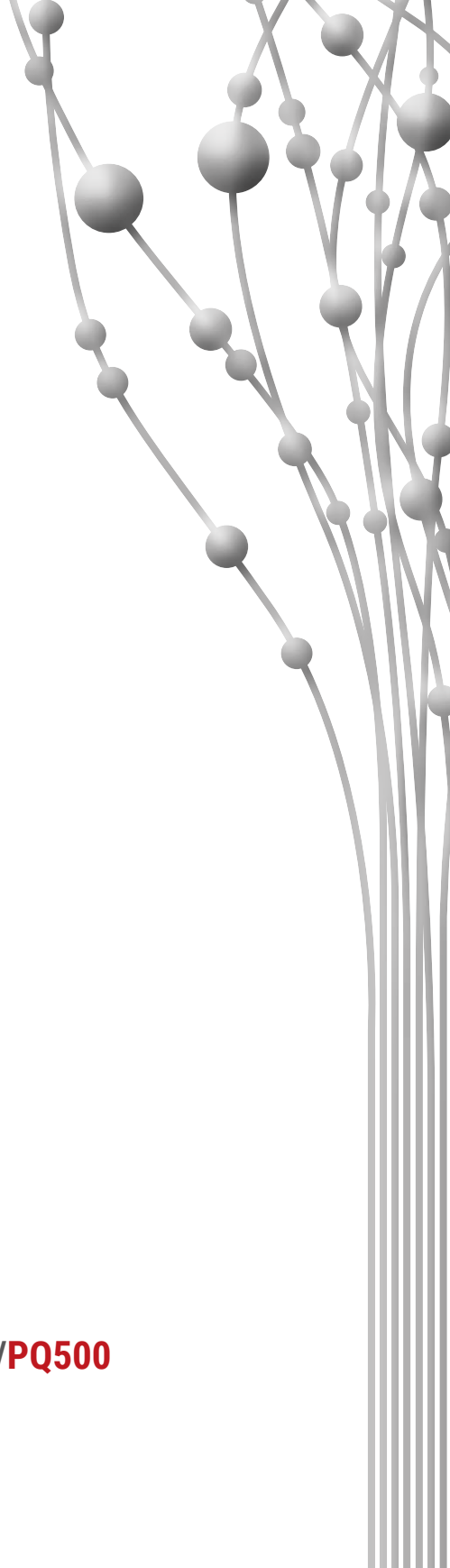
Key benefits

Unprecedented number of stable isotope labelled (SIS) reference peptides (>800) in a single kit

SIS peptides as calibration points for label free absolute quantification of all proteins detected

Applicable to other body fluids (e.g. urine, CSF) or tissues

Measure all peptides in DIA mode or select sub-panel for targeted MRM/PRM measurements



ABOUT BIOGNOSYS

Biognosys is a leader in next generation proteomics, dedicated to transforming life science research by making the most advanced proteomics tools available to researchers. The company offers a suite of products and services to decode the proteome and equip researchers from all fields with a deep view of protein expression in biological systems.



www.biognosys.com/PQ500