

proteoCHIP EVO 96

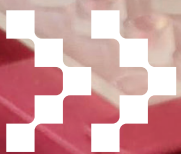
Miniaturized label-free Single Cell Proteomics sample preparation tailored for robust and high-throughput liquid chromatography

- End-to-end workflow in less than 3 hours
- Miniaturized sample preparation for high sensitivity measurements
- Direct loading via centrifugation to Evotips
- No manual transfer step

Single Cell Proteomics has never been *that* easy



Fast
Easy
Robust



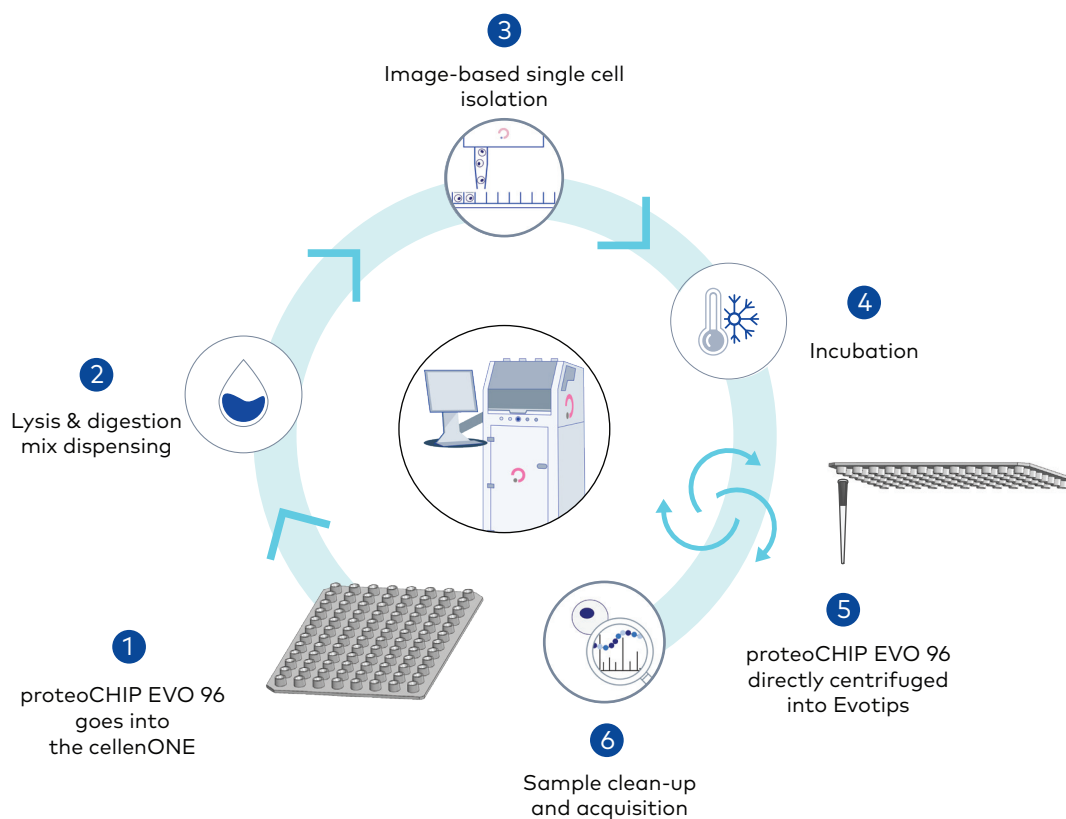
About proteoCHIP EVO 96

proteoCHIP EVO 96 is an innovative solution for label-free Single Cell Proteomics sample preparation. With its optimal design and accessories, it further extends the capabilities of cellenONE® single cell isolation technology. The combination of both technologies enables end-to-end miniaturized Single Cell Proteomics sample preparation for MS-based analysis.

Using the proteoCHIP EVO 96 allows for single cell sample preparation directly on-deck of the cellenONE, including incubation steps. After sample preparation, the samples can be directly transferred into Evtips via centrifugation, allowing transfer to the Evosep One with no manual step.

- 96 cells per chip
- 2 chips per run
- Up to 192 samples processed in parallel

proteoCHIP EVO 96 Workflow



Scan here to learn more about cellenONE single cell dispenser



Scan to see the workflow in video

End-to-end workflow, from single cell suspension to peptide separation, in less than 3 hours

"The proteoCHIP EVO 96 is a pivotal component in our label-free single cell proteomics workflow. It facilitates precise, high-throughput, and almost lossless sample preparation, leading to exceptional analytical results when paired with sophisticated LC-MS systems."

Zilu Ye, Olsen Group, Novo Nordisk Foundation Center for Protein Research, University of Copenhagen



"The proteoCHIP EVO 96 allowed us to further streamline our spatial tissue proteomics workflows, reducing overall sample preparation time to approx. 3 hours. We particularly like the loss-reduced peptide transfer into Evtips via centrifugation, which facilitates 'on-the-fly' sample clean-up. This is an important step for the analysis of tissue samples."

Fabian Coscia, Coscia Lab, Spatial Proteomics, Max Delbrück Center for Molecular Medicine (MDC)



"Cellenion's proteoCHIP EVO 96 acts as an efficient interface device between the cellenONE for sample preparation and the Evosep system for sample loading and preservation. It is easy-to-use and allows for lossless transfer, thereby preserving the integrity and quantity of the sample, which is crucial for single-cell proteomics. Together it improves reproducibility and sensitivity."

Marvin Thielert, Mann Group, Research Department Proteomics and Signal Transduction, Max Planck Institute of Biochemistry



"I am using the proteoCHIP EVO 96 for very diverse applications, including single-cell proteomics and spatial tissue profiling. The proteoCHIP EVO 96 streamlines our label-free single-cell protocol to only a couple of hours with even less sample handling compared to the previous multiplexed proteoCHIP. One of the biggest advantages to perform sample-preparation on the EVO 96 is the confident cell deposition in the sample droplet and the minimal evaporation during processing. The direct connection of the chip to the Evosep additionally allows us to clean up the samples with minimal losses, protect the column and reproducibly acquire 80SPD at biologically relevant proteome depth."

Claudia Ctortecka, Carr Group, Broad Institute of MIT and Harvard



"The proteoCHIP EVO 96 seamlessly integrates single cell preparation within the cellenONE with downstream LC-MS/MS-based deep proteome profiling. Its rapid and effortless sample transfer into the 96 Evtip box format ensures remarkable consistency in protein identifications across different samples. In our high sensitivity 4D-proteomics™ single cell ecosystem, featuring the Evosep One in Whisper mode and the powerful timsTOF Ultra, the proteoCHIP EVO 96 enhances our capabilities to set new standards for precision, speed, selectivity, and sensitivity."

Christoph Krisp, BRUKER





Scan here to visit the
proteoCHIP EVO 96
Webpage

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