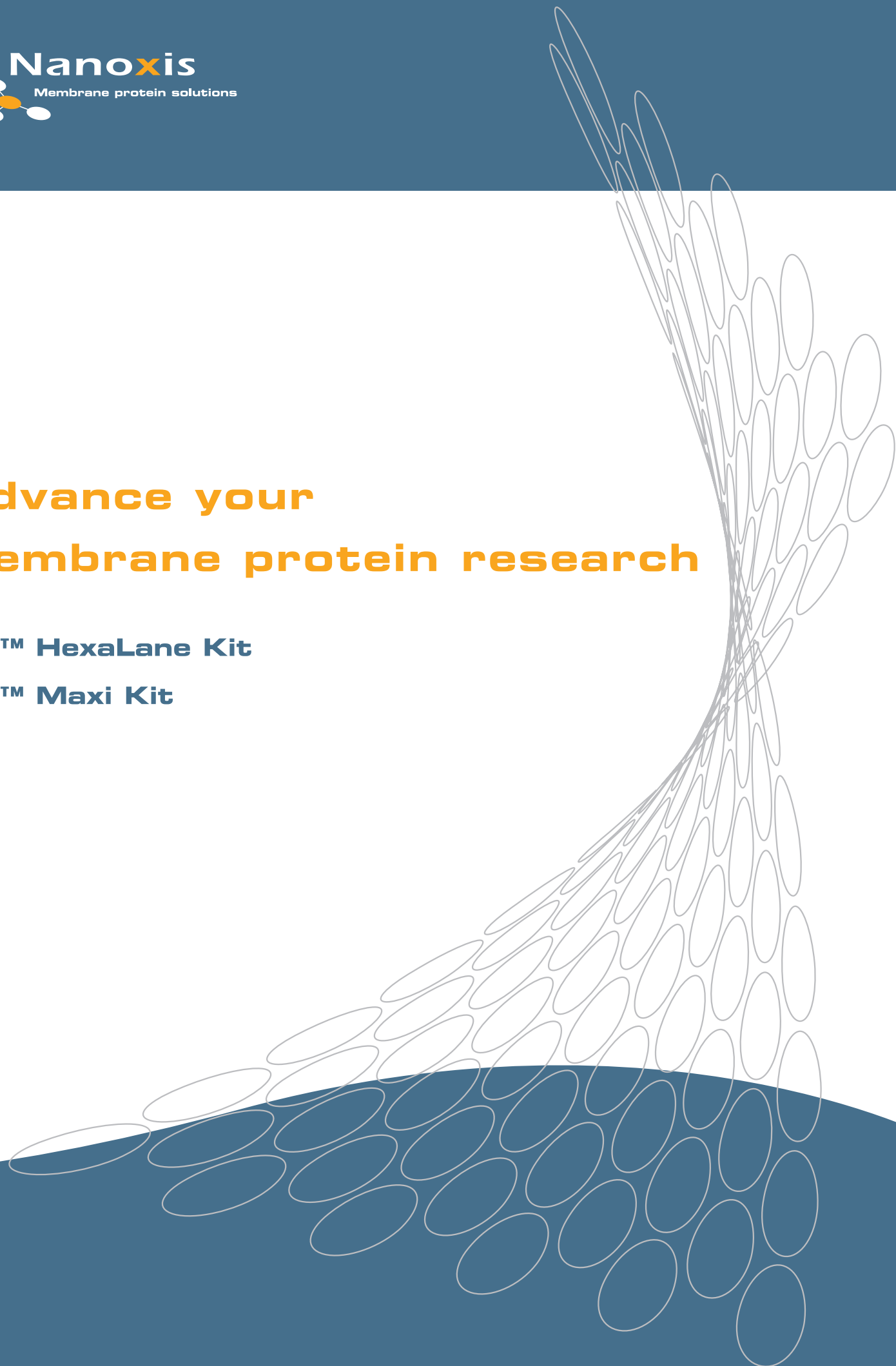


Advance your membrane protein research

LPI™ HexaLane Kit

LPI™ Maxi Kit



A new membrane proteomics technology

Native membrane protein immobilization on a solid surface

Improve your protein analysis with LPI™ Kits

Flow cell format

Quick and easy exchange of solution around proteins without centrifugation steps enabling, e.g. transient or sequential digestions.

Detergent free protocols

During immobilization of proteoliposomes, directly from cell or tissue, in vitro lipid composition is unaltered. Unaltered bilayer composition will govern preserved topology and function.

Easy handling

No need for instrumentation. A pipette is used to simply load, wash and elute.

Immobilized membrane proteins

A stationary phase of membrane proteins is created, well suitable for ligand binding studies for example.

Wide range of applications

Protein sequencing with multi-step digestion

Quantitative proteomics

Antigen epitope identification

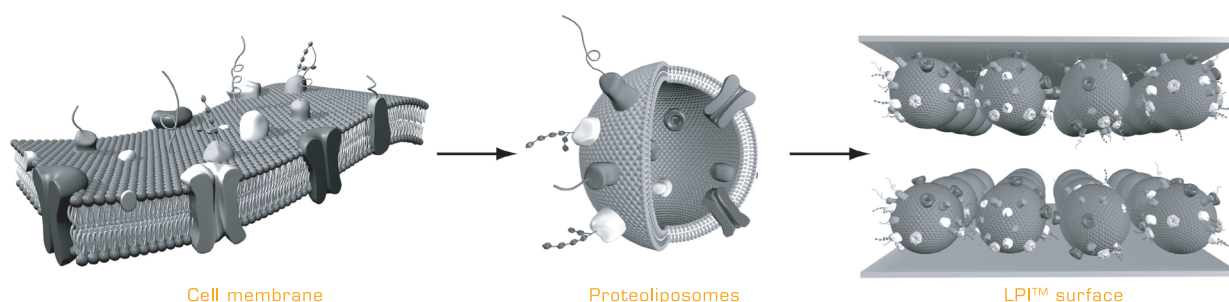
Ligand binding studies

Post translational modification studies

Cell surface glycosylation patterns

Easy and efficient membrane protein profiling

The LPI™ technology



The Lipid-based Protein Immobilization technology (LPI™) enables immobilization of native membrane proteins in the form of proteoliposomes, generated directly from cells or tissue. The membrane proteins can be subjected to a variety of protocols in a highly controlled manner, to provide effective and precise preparation of samples for downstream analysis.

The technology is based on the use of proprietary surfaces and sample preparation protocols designed to retain the natural environment around the membrane proteins. The LPI™ technology utilizes detergent-free sample preparation prior to the characterization of membrane proteins with, e.g., mass spectrometry, liquid chromatography or UV detection.

Easy and efficient handling of membrane proteins



LPI™ HexaLane FlowCell

- six separate lanes for higher throughput

- Higher throughput
- Decreased sample and reagent consumption
- Single lane volume: 40 µl
- Single lane binding capacity: 10 µg proteoliposomes

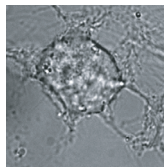


LPI™ Maxi FlowCell

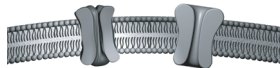
- high sensitivity for low abundant proteins

- Designed for high sensitivity applications
- Enables detection of low abundant proteins
- Flow cell volume: 350 µl
- Flow cell binding capacity: 100 µg proteoliposomes

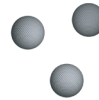
Cells or tissue



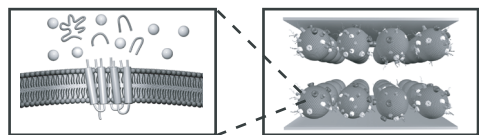
Membrane
extraction



Physical
disruption
into vesicles



Immobilization



Wash

Elution

Digestion



Sample for analysis

LPI™ FlowCell is a single use device with a proprietary surface that allows for immobilization of intact proteoliposomes directly produced from membrane preparations of a wide variety of cells and tissues. Proteins are kept in their native cell membrane with retained structure and function. The flow cell format enables quick and easy exchange of solution environment around the membrane proteins.

Ordering Information

Kits |

N37-32-377	LPI™ HexaLane Kit	1 x LPI™ HexaLane FlowCell LPI™ Reagent Set LPI™ HexaLane FlowCell Holder
N37-32-367	LPI™ HexaLane Kit 3p	3 x LPI™ HexaLane FlowCell LPI™ Reagent Set LPI™ HexaLane FlowCell Holder
N37-22-277	LPI™ Maxi Kit 3p	3 x LPI™ Maxi FlowCell LPI™ Reagent Set LPI™ Maxi FlowCell Holder
N37-22-267	LPI™ Maxi Kit 6p	6 x LPI™ Maxi FlowCell LPI™ Reagent Set LPI™ Maxi FlowCell Holder

Individual items |

N37-53-333	LPI™ HexaLane FlowCell	1 x LPI™ HexaLane FlowCell
N37-53-323	LPI™ Maxi FlowCell	1 x LPI™ Maxi FlowCell

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