

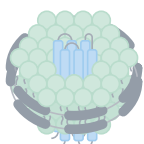
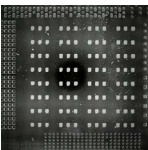

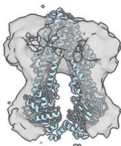
Functional membrane proteins: Ready in 48 Hours

Struggling to express membrane proteins?

You're not alone. Membrane proteins account for over 60% of drug targets, yet cell-based expression and extraction methods often fail due to misfolding, aggregation, and low yields, delaying structural and functional studies.

eProtein Discovery™: Your path to membrane proteins

Our customizable additive screening solution accelerates membrane protein production, delivering purified protein in just 48 hours. Fine-tune expression and purification conditions using nanodiscs, detergents, chaperones, metal ions, cofactors, redox conditions, and more to optimize membrane protein folding, stability, and function.

Feature	Description	Benefit
 <p>Accelerated membrane protein screening</p>	Screen 11 membrane proteins against custom stabilizing additives using cell-free protein synthesis in 24 hours	Speeds up the identification of optimal conditions
 <p>Automated & miniaturized</p>	Digital microfluidics powers automated nano-droplet screening for 88 expression and purification datapoints	Reduces cost and reagent consumption
 <p>Rapid detection & characterization</p>	On-cartridge fluorescence-based protein characterization assay only quantifies full-length, stable protein	Real-time QC prevents wasted experiments
 <p>Assay-ready protein</p>	Scale up the best conditions to obtain purified, assay-ready protein for cryo-EM and functional assays	Functional membrane proteins in 48 hours

End-to-end workflow delivering µg-to-mg quantities of assay-ready membrane protein

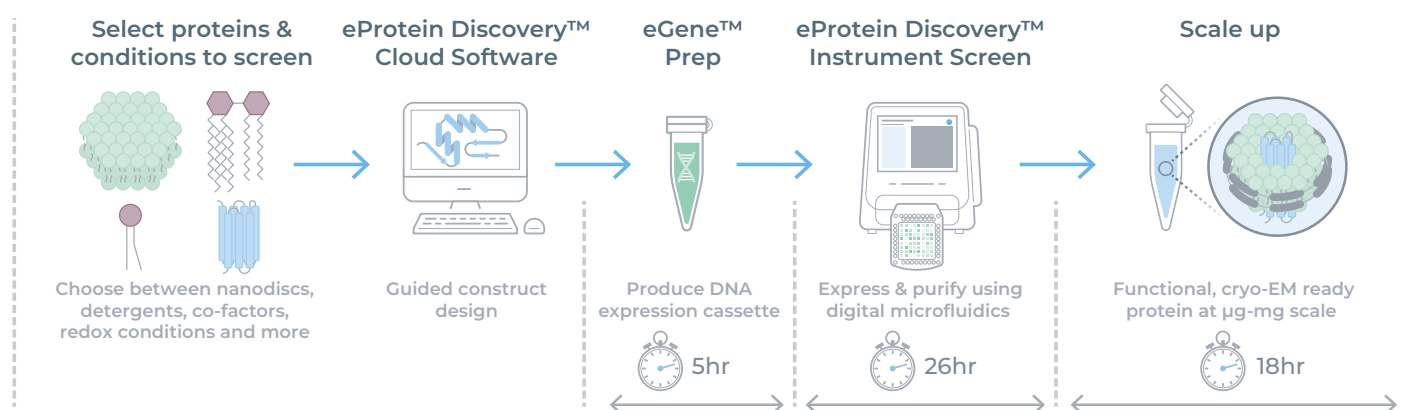


Figure 1. eProtein Discovery™ workflow.

Explore all classes of membrane proteins

From GPCRs to ion channels, streamline protein production by optimizing conditions to deliver high-yield, purified, assay-ready membrane proteins efficiently.

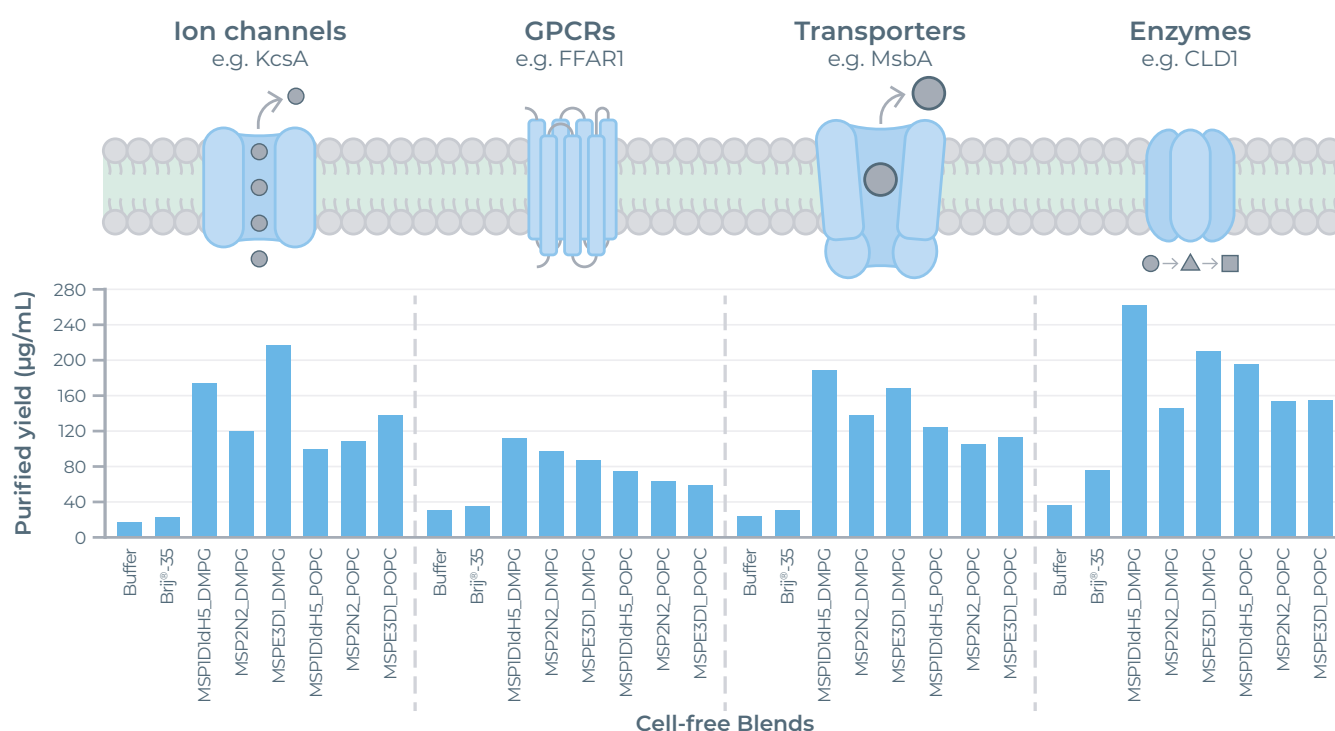


Figure 2. eProtein Discovery™ membrane protein screen with different detergents and nanodiscs.

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Nuclera Technical Support:

UK Phone / WhatsApp Business: +44 1223 942 761

US Phone: +1 508-306-1297

Email: techsupport@nuclera.com

www.nuclera.com

