

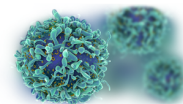
Human MSP2N2 lyophilized protein with a his-tag

Catalog: MSP-1004

Recombinant human membrane scaffold protein 2N2 was expressed in E.coli and purified by Ni-NTA.

PRODUCT INFORMATION

Product Name	Human MSP2N2 lyophilized protein with a his-tag
Catalog Number	MSP-1004
Source	E.coli
Product Overview	Recombinant human membrane scaffold protein 2N2 was expressed in E.coli and purified by Ni-NTA.
Purity	>90%
Species	Human
Tag	His
Molecular Mass	45.67kDa
Storage	Stored lyophilized powder at -20°C. The reconstituted solution should be stored at 2-8°C and should be used up in several days.
Background	Nanodiscs are a new class of model membranes that are being used to solubilize and study a range of integral membrane proteins and membrane-associated proteins. The Nanodisc bilayer is bounded by a membrane scaffold protein coat that confers enhanced stability and a narrow particle size distribution. The nanodisc assembles from a mixture of full length membrane protein in detergent, phospholipid micelles and membrane scaffold protein upon removal of the detergent.



Reconstitution	Adding double distilled water to prepare a stock solution of 4mg/mL. This stock solution can be diluted further as required by the different application protocols.
Scaffold Diameter	17 nm
Formulation	Lyophilized from 20mM Tris pH 7.4, 100 mM NaCl, 0.5 mM EDTA.

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.