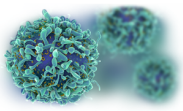

Rat MSP1E3D1 lyophilized protein with a his-tag

Catalog: MSP-1008

Recombinant Rat membrane scaffold protein 1E3D1 was expressed in E.coli with N-terminal His tag.

PRODUCT INFORMATION

Product Name	Rat MSP1E3D1 lyophilized protein with a his-tag
Catalog Number	MSP-1008
Source	E.coli
Product Overview	Recombinant Rat membrane scaffold protein 1E3D1 was expressed in E.coli with N-terminal His tag.
Purity	>90%
Species	Rat
Tag	His
Molecular Mass	31.57kDa
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.

45-1 Ramsey Road, Shirley, NY 11967, USA
info@creative-biostructure.com | Tel: 1-631-317-1417 | Fax: 1-631-207-8356

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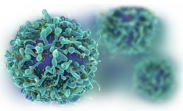

Reconstitution	Adding double distilled watwe to prepare a stock solution of 4mg/mL. This stock solution can be diluted further as required by the differnet application protocols.
Scaffold Diameter	12-14 nm
Formulation	Lyophilized from 20mM Tris pH 7.4, 100 mM NaCl, 0.5 mM EDTA.

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.

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