



# Rat MSP1E3D1 lyophilized protein with a his-tag

Catalog: MSP-1008

## PRODUCT INFORMATION

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<b>Name</b>	Rat MSP1E3D1 lyophilized protein with a his-tag
<b>Cat No.</b>	MSP-1008
<b>Shortname</b>	MSP1E3D1
<b>Source</b>	E.coli
<b>Product Overview</b>	Recombinant Rat membrane scaffold protein 1E3D1 was expressed in E.coli with N-terminal His tag.
<b>Purity</b>	>90%
<b>Species</b>	Rat
<b>Tag</b>	His
<b>Molecular Mass</b>	31.57kDa
<b>Storage</b>	Stored lyophilized powder at -20°C. The reconstituted solution should be stored at 2-8°C and should be used up in several days.
<b>Background</b>	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.
<b>Reconstitution</b>	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.
<b>Scaffold Diameter</b>	12-14 nm
<b>Formulation</b>	Lyophilized from 20mM Tris pH 7.4, 100 mM NaCl, 0.5 mM EDTA.