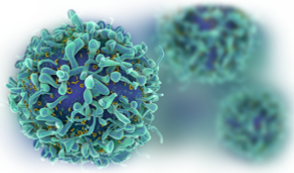

Human MSP1E3D1 lyophilized protein with a his-tag

Catalog: MSP-1003

PRODUCT INFORMATION

Name	Human MSP1E3D1 lyophilized protein with a his-tag
Cat No.	MSP-1003
Shortname	MSP1E3D1
Source	E.coli
Product Overview	Recombinant human membrane scaffold protein 1E3D1 was expressed in E.coli and purified by Ni-NTA.
Purity	>90%
Species	Human
Tag	His
Molecular Mass	32.6kDa
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 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.

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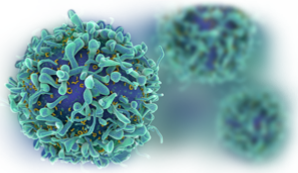

USAGE GUIDELINES

General	Avoid excessive mixing or shocking to prevent aggregation. Long term storage above -80°C may result in aggregate formation.
Storage	Short term: +2°C to +8°C Long term: -80°C
Stability	n.a.
Freezing	Can be frozen, but avoid multiple freeze/thaw cycles.

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