



# Rat MSP1D1 lyophilized protein with a his-tag

Catalog: MSP-1007

## PRODUCT INFORMATION

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| <b>Name</b>              | Rat MSP1D1 lyophilized protein with a his-tag  |
| <b>Cat No.</b>           | MSP-1007   |
| <b>Shortname</b>         | MSP1D1   |
| <b>Source</b>            | E.coli   |
| <b>Product Overview</b>  | Recombinant Rat membrane scaffold protein 1D1 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>    | 24.6kDa  |
| <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> | 9-10 nm  |
| <b>Formulation</b>       | Lyophilized from 20mM Tris pH 7.4, 100 mM NaCl, 0.5 mM EDTA.   |