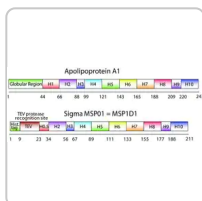


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Toutes les
photos (4)

MSP01 ▶ **Sigma-Aldrich**

Membrane Scaffold Protein 1D1

★★★★★ (0)

recombinant, expressed in *E. coli*, buffered aqueous solution

Synonyme(s):

Membrane Scaffold Protein 1D1, MSP1D1, MSP1T2

Documents**FDS****COO/COA****Fiche des
caractéristiques**

Référence	Conditionnement	Disponibilité	Prix	Quantité
MSP01-5MG	5 MG	✓ Only 1 left in stock (more on the way)	Détails... 554,00 €	1 - +

[Demander une commande en gros](#)[Ajouter au panier](#)

PRODUITS RECOMMANDÉS

**Sigma-Aldrich****Sigma-Aldrich**

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PROPRIÉTÉS

Recombinant	expressed in <i>E. coli</i>
Niveau de qualité	200
Essai/Dosage	≥90% (SDS-GE)
Forme	buffered aqueous solution
Expédié(e)s dans	ambient
Temp. de stockage	-20°C

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

DESCRIPTION

Description générale

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Protein 1D1 (MSP 1D1) variant of MSP1 deletes the first 11 amino acids in the Helix 1 portion (referred to as H0.5 in the accompanying figure) of the original MSP1 sequence.

Application

Nanodisc soluble lipid bilayer systems have proven to be a widely applicable means for rendering membrane proteins soluble in aqueous solutions in a native-like bilayer environment where they remain monodisperse and active. The critical component of nanodiscs is the encircling amphipathic helical protein belt (membrane scaffold protein).

The nanodisc system has been employed to incorporate a wide variety of proteins including GPCRs, P450s, bacteriorhodopsin, coagulation factors, cholera toxin, TAR receptor and aromatase.

For guidelines on the use of this and other MSP's to prepare Nanodiscs, please visit our [Protocols for Membrane Scaffold Proteins and Nanodisc Formation page](#).

Actions biochimiques/physiologiques

Generates Nanodiscs ~9.7 nm in diameter

Informations légales

Nanodisc technology, and many of its uses, are covered by the following patents held by the University of Illinois.

- 7,691,414 Membrane scaffold proteins
- 7,662,410 Membrane scaffold proteins and embedded membrane proteins
- 7,622,437 Tissue factor compositions and methods
- 7,592,008 Membrane scaffold proteins
- 7,575,763 Membrane scaffold proteins and tethered membrane proteins
- 7,083,958 Membrane scaffold proteins

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- 7,592,008 Membrane scaffold proteins
- 7,575,763 Membrane scaffold proteins and tethered membrane proteins
- 7,083,958 Membrane scaffold proteins
- 7,048,949 Membrane scaffold proteins

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

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Rechercher

Certificat d'origine

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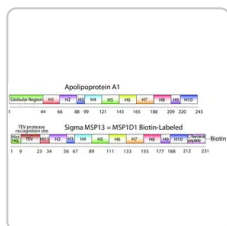
Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

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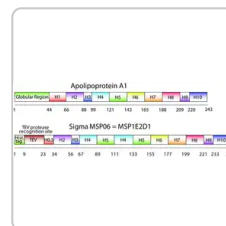
Sigma-Aldrich

MSP13

Membrane Scaffold Protein 1D1 BTN

recombinant, expressed in *E. coli*, Biotin labeled

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Sigma-Aldrich

MSP06

Membrane Scaffold Protein 1E2D1

recombinant, expressed in *E. coli*, buffered aqueous solution

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A cis-carotene derived apocarotenoid regulates etioplast and chloroplast development.

Christopher I Cazzonelli et al.

eLife, 9 (2020-02-01)

Carotenoids are a core plastid component and yet their regulatory function during plastid biogenesis remains enigmatic. A unique carotenoid biosynthesis mutant, carotenoid chloroplast regulation 2 (*ccr2*), that has no prolamellar body (PLB) and normal PROTOCHLOROPHYLLIDE OXIDOREDUCTASE (POR) levels, was used

Genome-wide identification of bacterial plant colonization genes.

Benjamin J Cole et al.

PLoS biology, 15(9), e2002860-e2002860 (2017-09-25)

Diverse soil-resident bacteria can contribute to plant growth and health, but the molecular mechanisms enabling them to effectively colonize their plant hosts remain poorly understood. We used randomly barcoded transposon mutagenesis sequencing (RB-TnSeq) in *Pseudomonas simiae*, a model root-colonizing bacterium

IRE1B degrades RNAs encoding proteins that interfere with the induction of autophagy by ER stress in *Arabidopsis thaliana*.

Yan Bao et al.

Autophagy, 14(9), 1562-1573 (2018-06-27)

Macroautophagy/autophagy is a conserved process in eukaryotes that contributes to cell survival in response to stress. Previously, we found that endoplasmic reticulum (ER) stress induces autophagy in plants via a pathway dependent upon AT5G24360/IRE1B (INOSITOL REQUIRING 1-1), an ER membrane-anchored

Identification of transcription factors that regulate ATG8 expression and autophagy in *Arabidopsis*.

Ping Wang et al.

Autophagy, 16(1), 123-139 (2019-03-27)

Autophagy is a conserved catabolic process in eukaryotes that contributes to cell survival in response to multiple stresses and is important for organism fitness. In *Arabidopsis thaliana*, the core machinery of autophagy is well defined, but its transcriptional regulation is

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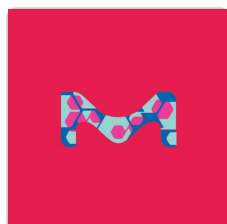
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Protocols for Membrane Scaffold Proteins and Nanodisc Formation

The following material related to Nanodisc Technology is adapted from on-line content of the research group of Professor Stephen Sligar of the University of Illinois at Urbana-Champaign, with the kind permission of Professor Sligar.

PRODUITS CONSULTÉS RÉCEMMENT



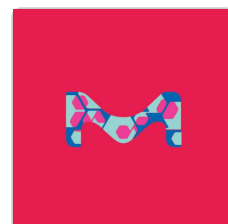
Sigma-Aldrich

MRN70

GenElute™ mRNA Miniprep Kit

sufficient for 70 purifications

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Sigma-Aldrich

MR-051

M2 medium

EmbryoMax M2 Medium (1X), Liquid, with Phenol Red & Hyaluronidase

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Évaluations



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