

# Recombinant mouse MESDC2 protein

Catalog Number: ATGP3257

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

30-224aa

### UniProt No.

Q9ERE7

### NCBI Accession No.

NP\_075892

### Alternative Names

2210015O11Rik, AW537813, mesd, mKIAA0081, msd

## PRODUCT SPECIFICATION

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### Molecular Weight

24.4 kDa (218aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

MESDC2 also known as LDLR chaperone MESD. This protein is specialized chaperone for low-density lipoprotein receptor-related protein 5 and LRP6. MESDC2 binds to mature LRP6 on the cell surface and blocks the binding of Wnt antagonist Dickkopf-1 to LRP6. Furthermore, MESDC2 plays an essential role in NMJ formation by promoting Lrp4 maturation. Recombinant mouse MESDC2, fused to His-tag at N-terminus was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSADTPGEA TPPPRKKKDI RDYNDADMAR LLEQWEKDDD IEEGDLPEHK RPSAPIDFSK  
LDPGKPESIL KMTKKGKTLM MFVTVSGNPT EKETEEITSL WQGSLFNANY DVQRFIVGSD RAIFMLRDGS YAWEEKDFLV  
SQDRCAEVTI EGQMYPGKGG GSKEKNKTKP EKAKKKEGDP KPRASKEDNR AGSRREDL

### General References

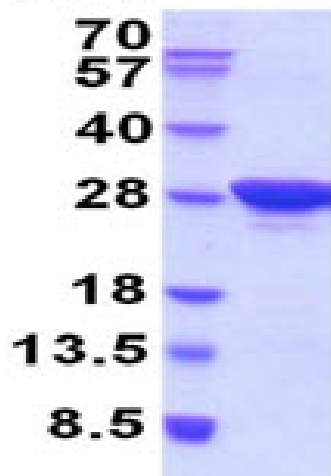
Lu W., et al. (2010) Biochemistry. 49(22): 4635-43.

Hoshi T., et al. (2013) FEBS Lett. 587(23): 3749-54.

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)