

Recombinant human MESDC1 protein

Catalog Number: ATGP2657

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-362aa

UniProt No.

Q9H1K6

NCBI Accession No.

NP_072088

Alternative Names

Mesoderm development candidate 1, MGC99595

PRODUCT SPECIFICATION

Molecular Weight

40.1 kDa (385aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% 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

Description

Mesoderm development candidate 1, also known as MESDC1, belongs to the MESD family. It is a 362 amino acid protein encoded by a gene that maps to human chromosome 15q25. 1. MESDC1 acts as a chaperone for low-density lipoprotein receptor (LDLR) proteins in the ER, and particularly associates with Wnt signaling pathway coreceptors LRP5 and LRP6). MESDC1 is required for proper LRP5/6 folding and maturation to the cell surface, which plays a major role in Wnt signaling. Recombinant human MESDC1 protein, 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

MGSSHHHHHHH SSGLVPRGSH MGSMASGSAG KPTGEAASPA PASAIGGASS QPRKRLVSVK DHCKGKMLV ADLLLLSSEA
RPVLFEGPAS SGAGAESFEQ CRDTIIARTK GLSILTHDVQ SQLNMGRFGE AGDSLVELGD LVSLSLTCESA HAAYLAAVAT
PGAQPAQPGL VDRYRVTRCR HEVEQGCAVL RATPLADMTP QLLLEVSQGL SRNLKFLTDAL CALASDKSRD RFSREQFKLG
VKCMSTSASA LLACVREVKV APSELARSRC ALFSGPLVQA VSALVGFATE PQFLGRAAAV SAEGKAVQTA ILGGAMSVVS
ACVLLTQCLR DLAQHPDGGA KMSDHRERLR NSACAVSEGC TLLSQALRER SSPRTLPPVN SNSVN

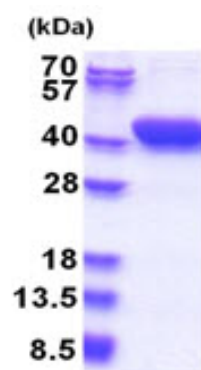
General References

Wines M E., et al. (2001) Genomics.72: 88-98.

Midia G S., et al. (2008) JAAPA. 21: 21-25.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)