

MESDC1, 1-362aa, Human, His tag, E.coli

Cat.NO.: TP02950

3th Edition

Synonyms: Mesoderm development candidate 1, MGC99595

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.

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

Molecular Weight: 40.1 kDa (385aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMASGSAGKPTGEAASPAPASAIGGASSQPRKRLVSVCDHCKGKMQLVADL
LLLSSEARPVLFEGPASSGAGAESFEQCRDTIIARTKGLSILTHDVQSQLNMGRFGEAGDSLVELGDLVVSLTECSA
HAAYLAAVATPGAQPAQPGLVDYRVTRCRHEVEQGCAVLRATPLADMTPQLLLEVSQGLSRNLKFLTDACALAS
DKSRDRFSREQFKLGVKCMSTSASALLACVREVKVAPSELARSRCALFSGPLVQAVSALVGFATEPQFLGAAAVS
AEGKAVQTAILGGAMSVVSACVLLTQCLRDLAQHPDGGAKMSDHRERLRNSACAVSEGCTLLSQALRERSSPRTL
PPVNSNSVN

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.