

Recombinant Human GDP-Mannose 4,6-Dehydratase, His-tagged

Cat. No. GMDS-1282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GMDS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	GMDS, also known as SDR3E1, belongs to the GDP-mannose 4,6-dehydratase family. This protein utilizes NADP as a cofactor to catalyze the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose. Mutations in the gene encoding GMDS are involved in resistance to TRAIL (tumor necrosis factor-related apoptosis-inducing ligand)-induced apoptosis.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol 0.1M NaCl,1mM DTT, 0.1mM PMSF
Molecular Weight	44.1 kDa (392aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA EFLLEKGYEV HGIVRRSSSF NTGRIEHLKY NPQAHIEGNM

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KLHYGDLTDS TCLVKIINEV KPTEIYNLGA QSHVKISFDL AEYTADVDGV
 GTLRLLDAVK TCGLINSVKF YQASTSELYG KVQEIPQKET TPFYPRSPYG
 AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT RKISRSVAKI
 YLGQLECFSL GNLDKRDWG HAKDYVEAMW LMLQNDEPED FVIATGEVHS
 VREFVEKSFL HIGKTIVWEG KNENEVGRCK ETGKVHVTVD LKYRPTTEVD
 FLQGDCTKAK QKLNWKPRVA FDELVREMVH ADVELMRTNP NA

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.

Pathways

Amino sugar and nucleotide sugar metabolism; Fructose and mannose metabolism; Metabolic pathways

GENE INFORMATION

Gene Name

GMDS GDP-mannose 4,6-dehydratase [Homo sapiens]

Official Symbol

GMDS

Synonyms

GMDS; GDP-mannose 4,6-dehydratase; GMD; SDR3E1; OTTHUMP00000017756; OTTHUMP000000232770; GDP-D-mannose dehydratase; short chain dehydrogenase/reductase family 3E, member 1; EC 4.2.1.47

Gene ID

2762

mRNA Refseq

NM_001500

Protein Refseq

NP_001491

MIM

602884

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UniProt ID	O60547
Chromosome Location	6p25
Function	GDP-mannose 4,6-dehydratase activity; binding; coenzyme binding; lyase activity

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