

Product datasheet for **TP300471M**

GMDS (NM_001500) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human GDP-mannose 4,6-dehydratase (GMDS), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200471 protein sequence Red =Cloning site Green =Tags(s)

MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGVRRSSSFNTGRIEHLK
NPQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGTLRLLDVAVK
TCGLINSVKFYQASTSELYGKVQEIPQKETTPFYPRSPYGAALKLYAYWIVNFREAYNLFAVNGILFNHE
SPRRGANFVTRKISRVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQNDPEPDFVIATGEVHS
VREFVEKSFLHIGKTIVWEGKNEVGRCKETGKVHVTVDLKYRPTVEVDFLQGDCTKAKQKLNWKPRVA
FDELVREMVHADVELMRTNPNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

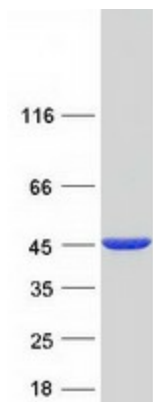
Tag:	C-Myc/DDK
Predicted MW:	41.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001491
Locus ID:	2762



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UniProt ID:	O60547 , E9PI88
RefSeq Size:	1700
Cytogenetics:	6p25.3
RefSeq ORF:	1116
Synonyms:	GMD; SDR3E1
Summary:	GDP-mannose 4,6-dehydratase (GMD; EC 4.2.1.47) catalyzes the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose, the first step in the synthesis of GDP-fucose from GDP-mannose, using NADP+ as a cofactor. The second and third steps of the pathway are catalyzed by a single enzyme, GDP-keto-6-deoxymannose 3,5-epimerase, 4-reductase, designated FX in humans (MIM 137020).[supplied by OMIM, Aug 2009]
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GMDS protein (Cat# [TP300471]). The protein was produced from HEK293T cells transfected with GMDS cDNA clone (Cat# [RC200471]) using MegaTran 2.0 (Cat# [TT210002]).