

Product datasheet for **TP300471**

GMDS (NM_001500) Human Recombinant Protein

Product data:

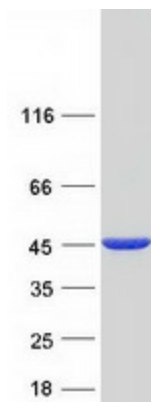
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|---------------------------------------|--|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human GDP-mannose 4,6-dehydratase (GMDS), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC200471 protein sequence Red =Cloning site Green =Tags(s) |
| | <p>MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGVRRSSSFNTGRIEHLK NPQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGTLRLLDVAVK TCGLINSVKFYQASTSELYGKVQEIPQKETTPFYPRSPYGAALKLYAYWIVNFRAYNLFAVNGILFNHE SPRRGANFVTRKISRVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQNDPEPDFVIATGEVHS VREFVEKSFLHIGKTIVWEGKNEVGRCKETGKVHVTVDLKYRPTVEVDFLQGDCTKAKQKLNWKPRVA FDELVREMVHADVELMRTNPNA</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| 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: | <u>O60547</u> , <u>E9PI88</u> |
| 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]).