

Recombinant Human GMDS Protein, GST-tagged

Cat. No. GMDS-5005H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GMDS full-length ORF (AAH00117, 1 a.a. - 372 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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
Molecular Mass	66.66 kDa
AA Sequence	MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLEKGYEVHGIVRR SSSFNTGRIEHLKYKNPQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHV KISFDLAEYTADVGVGTLRLLDAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTP FYPRSPYGAALKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISRVAKI YLGQLECFSLGNLDAKRDWGHAKDYVEAMWLMLQNDEPEDFVIATGEVHSVREFV EKSFLHIGKTIVWEGKNENEVGRCKETGKVHVTVDLKYYRPTEVDFLQGDCTKAKQ KLNWKPRVAFDELVREMVHADVELMRTNPNA
Applications	Enzyme-linked Immunoabsorbent Assay

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Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

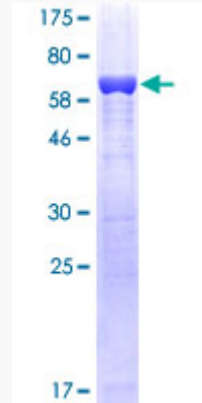
Gene Name	GMDS GDP-mannose 4,6-dehydratase [Homo sapiens]
Official Symbol	GMDS
Synonyms	GMDS; GDP-mannose 4,6-dehydratase; GDP-mannose 4,6 dehydratase; GMD; SDR3E1; short chain dehydrogenase/reductase family 3E; member 1; GDP-D-mannose dehydratase; short chain dehydrogenase/reductase family 3E, member 1;
Gene ID	2762
mRNA Refseq	NM_001253846
Protein Refseq	NP_001240775
MIM	602884
UniProt ID	O60547

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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