

# Recombinant Full Length Human GMDS Protein, GST-tagged

**Cat. No.** GMDS-5379HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GMDS full-length ORF ( AAH00117, 1 a.a. - 372 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	372 amino acids
<b>Description</b>	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 <sup>+</sup> 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
<b>Molecular Mass</b>	66.66 kDa
<b>AA Sequence</b>	MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGIVRR SSSFNTGRIEHLKYKPNQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHV KISFDLAEYTADV DGVGTLRLLDAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTP FYPRSPYGAALKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISRVAKI YLGQLECFSLGNLDAKRDWGHAKDYVEAMWLMLQNDEPEDFVIATGEVHVSREFV EKSFLHIGKTIVWEGKNENEVGRCKETGKVHVTVDLKYYRPTEVDFLQGDCTKAKQ KLNWKPRVAFDELVREM VHADVELMRTNPNA

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	GMDS GDP-mannose 4,6-dehydratase [ Homo sapiens ]
<b>Official Symbol</b>	GMDS
<b>Synonyms</b>	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;
<b>Gene ID</b>	2762
<b>mRNA Refseq</b>	NM_001253846
<b>Protein Refseq</b>	NP_001240775
<b>MIM</b>	602884
<b>UniProt ID</b>	O60547

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