

Recombinant Human GMDS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GMDS-4250H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMDS MS Standard C13 and N15-labeled recombinant protein (NP_001491) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	41.9 kDa
AA Sequence	MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGIVRR SSSFNTGRIEHLKYKNPQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHV KISFDLAEYTADVGVGTLRLDDAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTP FYPRSPYGAALKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISRVAKI YLGQLECFSLGNLDAKRDWGHAKDYVEAMWLMLQNDEPEDFVIATGEVHSVREFV EKSFLHIGKTIVWEGKNENEVGRCKETGKVHVTVDLKYYRPTEVDFLQGDCTKAKQ KLNWKPRVAFDELVREMVHADVELMRTNPNATRTRPLEQKLISEEDLAANDILDYKD DDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

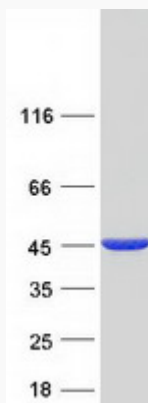
GENE INFORMATION

Gene Name	GMDS GDP-mannose 4,6-dehydratase [Homo sapiens (human)]
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_001500
Protein Refseq	NP_001491
MIM	602884
UniProt ID	O60547

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SDS-PAGE

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