

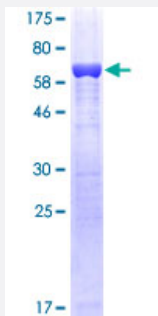
Full-Length

GMDS (Human) Recombinant Protein (P01)

Catalog # H00002762-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GMDS full-length ORF (AAH00117, 1 a.a. - 372 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGIVRRSSSFNTGRIE
HLYKNPQAHEGNNMKLHYGDLTDSTCLVKIINEVKPTEYNLGAQSHVKISFDLAEYTADV DGVGTLR
LLDAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTPFYRSPYGAALKLYAWMVNFREAYNLFA
VNGILFNHESPRRGANFVTRKISRSVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQND
EPEDFVIATGEVHSVREFVEKSFLHIGKTIVWEGKNENEVGRCKETGKVHVTVDLKYRPTVDL
QGDCTKAKQKLNWKPRVAFDELVREMVHADVELMRTNPNA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

66.66

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GMDS

Entrez GeneID	2762
GeneBank Accession#	BC000117
Protein Accession#	AAH00117
Gene Name	GMDS
Gene Alias	GMD, SDR3E1
Gene Description	GDP-mannose 4,6-dehydratase
Omim ID	602884
Gene Ontology	Hyperlink
Gene 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]
Other Designations	OTTHUMP00000017756 short chain dehydrogenase/reductase family 3E, member 1

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

- [Fructose and mannose metabolism](#)
- [Metabolic pathways](#)

Disease

- [Tobacco Use Disorder](#)