

Recombinant Human GMDS 293 Cell Lysate

Cat. No. GMDS-5885HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for GDP-mannose 4,6-dehydratase (GMDS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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

**Chromosome
Location**

6p25

Pathway

Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; GDP-L-fucose biosynthesis I (from GDP-D-

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mannose), organism-specific biosystem; Metabolic pathways, organism-specific biosystem; colanic acid building blocks biosynthesis, organism-specific biosystem;

Function

GDP-mannose 4,6-dehydratase activity; GDP-mannose 4,6-dehydratase activity; NADP+ binding; coenzyme binding; lyase activity; nucleotide binding;

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