

Recombinant Human GMDS, His-tagged

Cat. No. GMDS-13330H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GMDS protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-372a.a.
Description	The yeast heterotetrameric GINS complex is made up of Sld5 (GINS4; MIM 610611), Psf1 (GINS1; MIM 610608), Psf2, and Psf3 (GINS3; MIM 610610). The formation of this complex is essential for the initiation of DNA replication in yeast and Xenopus egg extracts (Ueno et al., 2005 [PubMed 16287864]). See GINS1 for additional information about the GINS complex.[supplied by OMIM, Mar 2008]
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	GMDS GDP-mannose 4,6-dehydratase [Homo sapiens]
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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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-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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