

## Product datasheet for **AR50107PU-S**

### GMDS (1-372, His-tag) Human Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	GMDS (1-372, His-tag) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA EFLLEKGYEV HGIVRRSSSF NTGRIEHLK NPQAHIEGNM KLHYGDLTDS TCLVKIINEV KPTEIYNLGA QSHVKISFDL AEYTADV DGV GTLRLLDVAVK TCGLINSVKF YQASTSELYG KVQEIPQKET TPFYPRSPYG AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT RKISRSVAKI YLGQLECFSL GNLDAKRDWG HAKDYVEAMW LMLQNDEPED FVIATGEVHS VREFVEKSFL HIGKTIVWEG KNENEVGRCK ETGKVHVTVD LKYYRPTEVD FLQGDCTKAK QKLNWKPRVA FDELVREMVH ADVELMRTNP NA
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	44.1 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl, 1 mM DTT, 0.1 mM PMSF
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human GMDS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001240775</a>
<b>Locus ID:</b>	2762
<b>UniProt ID:</b>	<a href="#">O60547</a> , <a href="#">E9PI88</a> , <a href="#">O60547-2</a>



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Cytogenetics: 6p25.3

Synonyms: GMD; SDR3E1

**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<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, Aug 2009]

**Protein Families:** Druggable Genome

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

### Product images:

