

Product information

GMDS, 1-372aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1282

Full name: GDP-mannose 4,6 dehydratase

NCBI Accession No.: NP_001491

Synonyms: GMD, SDR3E1

Description: GMDS, also known as SDR3E1, belongs to the GDP-mannose 4,6-dehydratase family. This protein utilizes NADP as a cofactor to catalyze the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose. Mutations in the gene encoding GMDS are involved in resistance to TRAIL (tumor necrosis factor-related apoptosis-inducing ligand)-induced apoptosis. Recombinant human GMDS protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

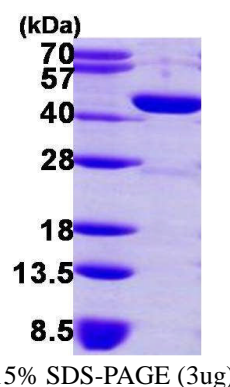
Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol

0.1M NaCl, 1mM DTT, 0.1mM PMSF

Molecular Weight: 44.1 kDa (392aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA EFLLEKGYEV HGIVRRSSSF NTGRIEHLK
 NPQAHIEGNI KLHYGDLTDS TCLVKIINEV KPTEIYNLGA QSHVKISFDL AEYTADVGV GTLRLLDAVK TCGLINSVKF YQASTSELYG
 KVQEI PQKET TPFYPRSPYG AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT RKISRSVAKI YLGQLECFSL GNLDKRDWG
 HAKDYVEAMW LMLQNDPEP FVIATGEVHS VREFVEKSFL HIGKTIWEG KNENEVGRCK ETGKVHVTVD LKYRPTVD FLQGDCTKAK
 QKLNWKPRVA FDELVREMVH ADVELMRTNP NA

General references:

Ohyama C. *et al.* (1998) *J Biol Chem.* 273: 14582-14587.

Moriwaki K. *et al.* (2009) *Gastroenterology* 137: 188-198.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
 Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.