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Recombinant human GMDS protein

Catalog Number: ATGP1282

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-372aa

UniProt No.

060547

NCBI Accession No.

NP 001491

Alternative Names

GDP-mannose 46 dehydratase, GDP-mannose 4,6 dehydratase, GMD, SDR3E1

PRODUCT SPECIFICATION

Molecular Weight

44.1 kDa (392aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 0.1M NaCl,1mM DTT, 0.1mM PMSF

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.



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Amino acid Sequence

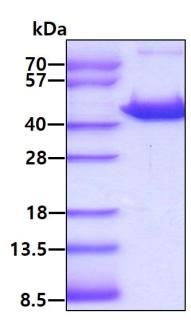
<MGSSHHHHHH SSGLVPRGSH> MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA EFLLEKGYEV HGIVRRSSSF NTGRIEHLYK NPQAHIEGNM KLHYGDLTDS TCLVKIINEV KPTEIYNLGA QSHVKISFDL AEYTADVDGV GTLRLLDAVK TCGLINSVKF YQASTSELYG KVQEIPQKET TPFYPRSPYG AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT RKISRSVAKI YLGQLECFSL GNLDAKRDWG HAKDYVEAMW LMLQNDEPED FVIATGEVHS VREFVEKSFL HIGKTIVWEG KNENEVGRCK ETGKVHVTVD LKYYRPTEVD 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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

