

AR50107PU-S

Human GMDS (1-372, His-tag) - Purified

Alternate names:

6 dehydratase, GDP-D-mannose dehydratase, GDP-mannose 4, GMD

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[O60547](#)

NCBI:

[NP_001491](#)

GeneID:

[2762](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 0.1M NaCl, 1mM DTT, 0.1mM PMSF

Description:

Recombinant human GMDS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA
EFLLEKGYEV HGIVRRSSSF NTGRIEHLK NPQAHIEGNM KLHYGDLTDS TCLVKIINEV
KPTEIYNLGA QSHVKISFDL AEYADVDGV GTLRLLDAVK TCGLINSVKF YQASTSELYG
KVQEIPKET TPFYPRSPYG AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT
RKISRSVAKI YLGQLECFSL GNLDAKRDWG HAKDYVEAMW LMLQNDEPED FVIATGEVHS
VREFVEKSFL HIGKTIVWEG KNENEVGRCK ETGKVHVTVD LKYYRPTEVD FLQGDCTKAK
QKLNWKPRVA FDELVREMVH ADVELMRTNP NA

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

Storage:

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.
Shelf life: one year from despatch.

General Readings:

Ohyama C. et al. (1998) J Biol Chem. 273: 14582-14587. Moriwaki K. et al. (2009) Gastroenterology 137: 188-198.

Pictures:

