

GMDS, 1-372aa, Human, His tag, E.coli

Cat.NO.: TP02278

3th Edition

Synonyms: GDP-mannose 4,6 dehydratase, 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.

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMAHAPARCPSARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLLEKGYEVHGIV
RRSSSFNTGRIEHLKYKNPQAHIEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGT
LRLLDVAVKTCGLINSVKFYQASTSELYGKVQEIPQKETTPFYPRSPYGAAKLYAYWIVVNFREAYNLFAVNGILFNHE
SPRRGANFVTRKISRVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWLMLQNDEPEDFVIATGEVHSVREFV
EKSFLHIGKTIVWEGKNENEVGRCKETGKVHVTVDLKYRPTFVDFLQGDCTKAKQKLNWKPRVAFDELVREMVH
ADVELMRTNPNA

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.