
Product Data Sheet

Product Name: GMDS Human
 Cat. No.: GP21698
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GDP-mannose 4;6-dehydratase; GMD; SDR3E1; short chain dehydrogenase/reductase family 3E member 1; GDP-D-mannose dehydratase; EC 4.2.1.47.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA EFLLEKGYEV HGIVRRSSSF NTGRIEHLYK 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 LKYRPTTEVD FLQGDCTKAK QKLNWKPRVA FDELVREMVH ADVELMRTNP NA.		
Formulation	The GMDS solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.1M NaCl, 0.1mM PMSF and 30% glycerol.		

Introduction

GMDS is a member of the GDP-mannose 4,6-dehydratase family. GMDS uses NADP as a cofactor to catalyze the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose. Defects in the gene encoding GMDS cause TRAIL (tumor necrosis factor-related apoptosis-inducing ligand)-induced apoptosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

GMDS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 392 amino acids (1-372) and having a molecular mass of 44.1 kDa. GMDS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA