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GMDS Human

Catalog #:ENPS-198

For research use only.

Description: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.

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.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

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 SP

Purity: Greater than 95% as determined by SDS-PAGE.

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.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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