

## GDP-Mannose 4,6-Dehydratase Human Recombinant

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| <b>Item Number</b>                       | rAP-1162                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                          | GDP-mannose 4,6-dehydratase, GMD, SDR3E1, short chain dehydrogenase/reductase family 3E member 1, GDP-D-mannose dehydratase, EC 4.2.1.47.                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>                       | 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.                                                                                                                                                                                    |
| <b>Uniprot Accession Number</b>          | O60547                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Amino Acid Sequence</b>               | MGSSHHHHH SSGLVPRGSH MAHAPARCPS ARGSGDGEMG KPRNVALITG ITGQDGSYLA<br>EFLLEKGYEV HGIVRRSSSF NTGRIEHLKY NPOAHIEGNM KLHYGDLTDS TCLVKIINEV KPTEIYNLGA<br>QSHVKISFDL AEYTADV DGV GTLRLLDVAVK TCGLINSVKF YQASTSELYG KVQEIPQKET TPFYPRSPYG<br>AAKLYAYWIV VNFREAYNLF AVNGILFNHE SPRRGANFVT RKISRSVAKI YLGQLECFSL<br>GNLDAKRDWG HAKDYVEAMW LMLQNDEPED FVIATGEVHS VREFVEKSFL HIGKTIVWEG<br>KNENEVGRCK ETGKVHVTVD LKYRPTTEVD FLQGDCTKAK QKLNWKPRVA FDELVREMVH AD-<br>VELMRTNP NA. |
| <b>Source</b>                            | E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Physical Appearance and Stability</b> | Sterile Filtered colorless solution. 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.                                                                                                                                                                                             |
| <b>Formulation and Purity</b>            | 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. Greater than 95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                     |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                                                                                                                                               |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**