

## Glyceraldehyde-3-Phosphate Dehydrogenase Human Recombinant, Ac-

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| <b>Item Number</b>                       | rAP-1057                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                          | G3PD, GAPD, MGC88685, GAPDH, Glyceraldehyde-3-Phosphate Dehydrogenase.                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>                       | GAPDH Human Recombinant produced in E. coli is a single polypeptide chain containing 335 amino acids (1-335) and having a molecular mass of 36kDa. The GAPDH is purified by proprietary chromatographic                                                                                                                                                                             |
| <b>Uniprot Accession Number</b>          | P04406                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Amino Acid Sequence</b>               | MGKVKGVNG FGRIGRLVTR AAFNSGKVDI VAINDPFIDL NYMVYMFQYD STHGKFHGTV KAENGKL-VIN GNPITIFQER DPSKIKWGDA GAEEVVESTG VFTTMEKAGA HLQGGAKRVI ISAPSADAPM FVMGVNHEKY DNSLKIIISNA SCTTNCLAPL AKVIHDNFGI VEGLMTTVHA ITATQKTVDG PSGKLWRDGR GALQNIIPAS TGAACKAVGKV IPELNGKLTG MAFRVPTANV SVVDLTCRLE KPAKYDDIKK VVKQASEGPL KGILGYTEHQ VVSSDFNSDT HSSTFDAGAG IALNDHFVKL ISWYDNEFGY SNRVVDLMAH MASKE. |
| <b>Source</b>                            | Escherichia 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 GAPDH protein (1 mg/ml) contains 20mM Tris-HCl buffer pH-8, 1mM EDTA, 1mM DTT and 20% glycerol. Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                   |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Biological Activity</b>               | Specific activity is > 90 units/mg, and is defined as the amount of enzyme that convert 1.0 umole of glyceraldehyde-3-phosphate to 1,3-Bisphosphoglycerate per minute at pH 8.5 at 37C.                                                                                                                                                                                             |
| <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**