

## Glycerol dehydrogenase E.coli Recombinant, Active

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| <b>Item Number</b>                       | rAP-1052                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                          | ECK3937,<br>JW5556, Glycerol dehydrogenase, GDH, GLDH, b3945.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>                       | GLDA E.coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 390 amino acids (1-367 a.a) and having a molecular mass of 41.1kDa. GLDA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.                                                                                                                                                                              |
| <b>Uniprot Accession Number</b>          | P0A9S5                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Amino Acid Sequence</b>               | MGSSHHHHH SSGLVPRGSH MGSMDRIQS PGKYIQGADV INRLGEYLKP LAERWLVVGD KVLG-<br>FAQST<br>VEKSFKDAGL VVEIAPFGGE CSQNEIDRLR GIAETAQCGA ILGIGGGKTL DTAKALAHFM GVPVAIAPTI<br>ASTDAPCSAL SVIYTDEGEF DRYLLLPNNP NMVIIVDTKIV AGAPARLLAA GIGDALATWF EARACSRSGA<br>TTMAGGKCTQ AALALAEFCY NTLLEEGEKA MLAAEQHVVT PALERVIEAN TYLSGVGFES GGLAAA-<br>HAVH<br>NGLTAIPDAH HYYHGEKVAE GTLTQLVLEN APVEEIVTVA ALSHAVGLPI TLAQLDIKED VPAKMRIVAE<br>AACAEGETIH NMPGGATPDQ VYAALLVADQ YGQRFLQEW. |
| <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>            | GLDA protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                         |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Biological Activity</b>               | Specific activity: > 14 Units/ml. One unit will oxidize 1.0 umole of glycerol to dihydroxyacetone per minute at pH 8.0 at 25C.                                                                                                                                                                                                                                                                                                                                      |
| <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**