

GPD1 Human

Description: GPD1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 349 amino acids (1-349 a.a.) and having a molecular mass of 37.5 kDa. The GPD1 is purified by conventional chromatography.

Catalog #: ENPS-496

For research use only.

Synonyms: EC 1.1.1.8, Glycerol-3-phosphate dehydrogenase [NAD⁺], GPDH-C, GPD-C, GPD1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MASKKVCIVG SGNWGSIAIK IVGGNAAQLA QFDPRVTMWV
FEEDIGGKKL TEIINTQHEN VKYLPGHKLP PNVVAVPDVV QAAEDADILI FVVPHQFIGK
ICDQLKGHLK ANATGISLIK GVDEGPNGLK LISEVIGERL GIPMSVLMGA NIASEVADEK
FCETTIGCKD PAQGQLLKEL MQTPNFRITV VQEVDTVEIC GALKNVVAVG AGFCDGLGFG
DNTKAAVIRL GL

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The GPD1 protein solution contains 20mM Tris-HCl pH-8, and 10% 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 drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

GPD1 enzyme catalyzes the reduction of dihydroxyacetone phosphate to sn-glycerol 3-phosphate. (sn-glycerol 3-phosphate + NAD⁺ = glycerone phosphate + NADH) previous names for glycerol-3-phosphate dehydrogenase include alpha glycerol-3-phosphate dehydrogenase and glycerolphosphate dehydrogenase. However, GPD1 differs from glyceraldehyde 3-phosphate dehydrogenase (GAPDH) whose substrate is an aldehyde not an alcohol.

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