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## Product Data Sheet

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Product Name: GPD1 Human  
 Cat. No.: GP21714  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 1.1.1.8; Glycerol-3-phosphate dehydrogenase [NAD <sup>+</sup> ]; GPDH-C; GPD-C; GPD1.		
Amino Acid Sequence	MASKKVCIVG SGNWGSIAIAK IVGGNAAQLA QFDPRVTMWV FEEDIGGKKL TEIINTQHEN VKYLPGHKLP PNVVAVPDVV QAAEDADILI FVVPHQFIGK ICDQLKGHLK ANATGISLIK GVDEGPNGLK LISEVIGERL GIPMSVLMGA NIASEVADEK FCETTIGCKD PAQGQLLKEK MQTPNFRITV VQEVDTVEIC GALKNVVAVG AGFCDGLGFG DNTKAAVIRL GLMEMIAFAK LFCSGPVSSA TFLESCGVAD LITTCYGGRN RKVAEAFART GKSIEQLEKE LLNGQKLQGP ETARELYSIL QHKGLVDKFP LFMAVYKVCY EGQPVGEFIH CLQNHPEHM.		
Formulation	The GPD1 protein solution contains 20mM Tris-HCl pH-8, and 10% glycerol.		

### Introduction

GPD1 enzyme catalyzes the reduction of dihydroxyacetone phosphate to sn-glycerol 3-phosphate. (sn-glycerol 3-phosphate + NAD<sup>+</sup> = 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.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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