

**GPD1, 1-349aa, Human, E.coli**

**Cat.NO.: TP02315**

---

3th Edition

**Synonyms:**Glycerol-3-phosphate dehydrogenase [NAD+]

**Description:**GPD1, also known as glycerol-3-phosphate dehydrogenase, is an enzyme that catalyzes the reduction of dihydroxyacetone phosphate to sn-glycerol 3-phosphate. (sn-glycerol 3-phosphate + NAD+ = glycerone phosphate + NADH) Older terms for glycerol-3-phosphate dehydrogenase include alpha glycerol-3-phosphate dehydrogenase and glycerolphosphate dehydrogenase.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

**Molecular Weight:**37.5 kDa (349aa)

**Sequences:**

```
MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWWFEEDIGGKKLTEIINTQHENVKYLPGHKLPPNVVAVP
DVVQAAEDADILIFVPHQFIGKICDQLKGHLKANATGISLIKGVDEGPNGLKLISEVIGERLGIPMSVLMGANIASEVA
DEKFCETTIGCKDPAQGQLLKELMQTPNFRITVVQEVDTVEICGALKNVVAVGAGFCDGLGFGDNTKAAVIRLGLME
MIAFAKLFCSGPVSSATFLESCGVADLITTCYGGRNRKVAEAFARTGKSIEQLEKELLNGQKLQGPETARELYSILQH
KGLVDKFPLFMAVYKVCYEGQPVGFEIHCLQNHPEHM
```

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.