

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:

MASKKVCIVGSGNWGSAIAKIVGGNAAQLAQFDPRVTMWVFEEIDIGGKKLTEIINTQHENVKYLPGHKLPPNVVAVP
DVVQAAEDADILIFVPHQFIGKICDQLKGHLKANATGISLIKGVDEGPNGKLISEVIGERLGIPMSVLMGANIASEVA
DEKFCETTIGCKDPAQGQLLKELMQTPNFRITVVQEVDTEICGALKNVVAVGAGFCDGLGFGDNTKAAVIRLGLME
MIAFAKLFCSGPVSSATFLESCGVADLITTCYGGRNRKVAEAFARTGKSIEQLEKELLNGQKLQGPETARELYSILQH
KGLVDKFPLFMAVYKVCYEGQPVGEFIHCLQNHPEHM

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.