Glycerol-3-phosphate Dehydrogenase [NAD+], Cytoplasmic

Cat. No. CBCRY30 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Source	E.coli
Background	Homo sapiens L-alpha-glycerol-3-phosphate dehydro-genase 1 (GPD1) catalyzes the reversible biological conversion of dihydroxyacetone (DHAP) to glycerol-3-phosphate. The GPD1 protein was expressed in Escherichia coli, and purified as a fusion protein with glutathione S-transferase.
Protein Classification	Oxidoreductase
Structure Weight	39164.02 Da
Polymer	1
Molecule	Glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic
Chain Length	354 amino acids
PDB ID	1X0X
MMDB ID	38469
Method	X-Ray Diffraction

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Resolution	2.75Å
Ligand Chemical Component	NAD; Sulfate ion
Reference	Ou, X., Ji, C., Han, X., Zhao, X., Li, X., Mao, Y., Wong, L.L., Bartlam, M., Rao, Z. (2006) Crystal Structures of Human Glycerol 3-phosphate Dehydrogenase 1 (GPD1) J.Mol.Biol. 357: 858-869

GENE INFORMATION

Gene Name	GPD1
Synonyms	FLJ26652; glycerol-3-phosphate dehydro-genase, soluble; glycerol-3-phosphate dehydrogenase 1 (soluble); EC 1.1.1.8; GPD-C; GPDH-C
UniProt ID	P21695
Gene ID	2819
Chromosome Location	12q12-q13
Function	NAD or NADH binding; binding; glycerol-3-phosphate dehydrogense (NAD+) activity; glycerol-3-phosphate dehydrogense activity; protein homodimerization activity

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