



Recombinant Geobacillus stearothermophilus Glycerol-1-phosphate dehydrogenase [NAD (P)+] (egsA)

Product Code	CSB-YP455307GFM
Relevance	Catalyzes the NAD(P)H-dependent reduction of dihydroxyacetonephosphate (DHAP or glycerone phosphate) to glycerol 1-phosphate (G1P). The G1P thus generated is probably used for the synthesis of phosphoglycerolipids in Gram-positive bacterial species.
Abbreviation	Recombinant Geobacillus stearothermophilus egsA protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	B3EYN8
Alias	Enantiomeric glycerophosphate synthase sn-glycerol-1-phosphate dehydrogenase
Product Type	Recombinant Protein
Immunogen Species	Geobacillus stearothermophilus (Bacillus stearothermophilus)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNQTL EEV VSLARQC GCGHRHYDIEQM VVGREAFARLVAYLRHKRYERVAI VADDHTFAAVERS LCDQLENGSIRYTVCLVQPDENG DVIADERSIVQVLLETPD DVDVLI AVGAGTI HDITRFSSYKMRIPFISVPTAPSV DGMTSMGAPLIIRGVK KTI QAQAPIAVFAHTGVLCQSPKEMIAAGFGDMVAKYTS LADWQFAHWMAD EPY CPFVHQLTEQSLQTCVDHIDDIAAGGEQGIRV LMDALLQSGIAMLLMGQSYSA SGAEHHL SHYWEMEFLRQKKRQVLHGAKVGVSTPIIIEHYQRVFWPLLNELEK RPKSMDEATWERLKANTASIRELLESLPSERIRTMLAKVGGAI APEQLGIDPQ LVERSLREAHRLRLNRFTMLYFLNELIFVE
Research Area	others
Source	Yeast
Target Names	egsA
Protein Names	Recommended name: Glycerol-1-phosphate dehydrogenase [NAD(P)+] Short name= G1P dehydrogenase Short name= G1PDH EC= 1.1.1.261 Alternative name(s): Enantiomeric glycerophosphate synthase sn-glycerol-1-phosphate dehydrogenase
Expression Region	1-404aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

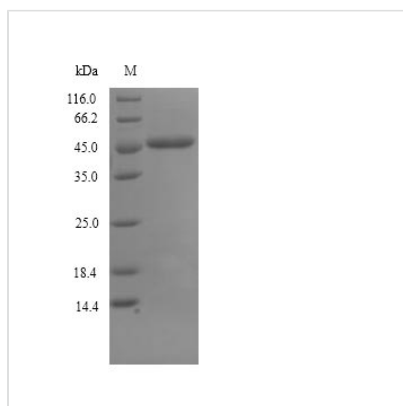


Tag Info N-terminal 6xHis-tagged

Mol. Weight 47.4kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.