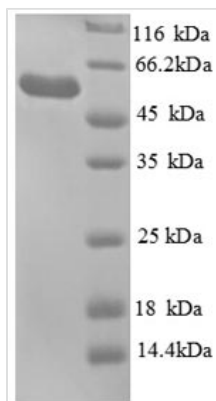




# Recombinant Escherichia coli Glycerol kinase (glpK)

<b>Product Code</b>	CSB-RP184074Ba
<b>Relevance</b>	Key enzyme in the regulation of glycerol uptake and metabolism. Catalyzes the phosphorylation of glycerol to yield sn-glycerol 3-phosphate. It also catalyzes the phosphorylation of dihydroxyacetone, L-glyceraldehyde and D-glyceraldehyde. It uses only ATP.
<b>Abbreviation</b>	Recombinant E.coli glpK protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P0A6F3
<b>Alias</b>	ATP:glycerol 3-phosphotransferase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Escherichia coli (strain K12)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	TEKKYIVALDQGGTSSRAVVMDHDANIISVSQREFEQIYPKPGWVEHDPMEIW ATQSSTLVEVLAKADISSDQIAAIGITNQRETTIVWEKETGKPIYNAIVWQCRRT AEICEHLKRDGLEDYIRSNTGLVIDPYFSGTKVKWILDHVEGSRERARRGELLF GTVDTWLIWKMTQGRVHVTDYTNASRTMLFNIHTLDWDDKMLEVLDIPREML PEVRRSSEVYGQTNIGGKGGTRIPISGIAGDQQAALFGQLCVKEGMAKNTYGT GCFMLMNTGEKAVKSENGLLTTIACGPTGEVNYALEGAVFMAGASIQWLRDE MKLINDAYDSEYFATKVQNTNGVYVPAFTGLGAPYWDPYARGAIFGLTRGVN ANHIIRATLESIAQTRDVLEAMQADSGIRLHALRVDGGAVANNFLMQFQSDIL GTRVERPEVREVTALGAAYLAGLAVGFQNLDELQEKAVIEREFRPGIETTER NYRYAGWKKAVKRAMAWEEHDE
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	glpK
<b>Expression Region</b>	2-502aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	60.1kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(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.