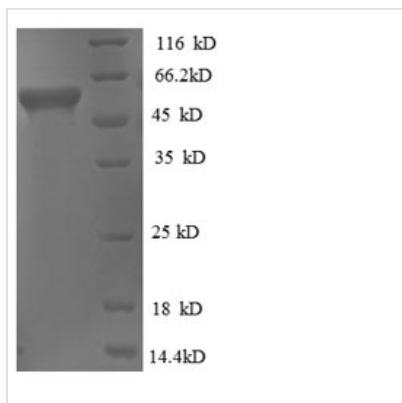




# Recombinant *Thermus thermophilus* Glycerol kinase(glpK)

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-EP524072TNR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Relevance</b>           | Key enzyme in the regulation of glycerol uptake and metabolism. Catalyzes the phosphorylation of glycerol to yield sn-glycerol 3-phosphate.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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>         | O66131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage Buffer</b>      | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Alias</b>               | ATP:glycerol 3-phosphotransferase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product Type</b>        | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>             | <i>Thermus thermophilus</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>              | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sequence</b>            | MNQYMLAIDQGTSSRAILFNQKGEIVHMAQKEFTQYFPQPGWVEHNANEIW<br>GSVLAVIASVLSEAQVKPEQVAGIGITNQRETTVVWEKDTGNPIYNAIVWQSRQ<br>TAGICDELKAKGYDPLFRKKTGLLIDAYFSGTKVKWILDHVDGARERAERGELL<br>FGTIDTWLIWKLSGGRVHVTDYSNASRTLTMFNIHTLEWDDILLGVPKAMLP<br>EVRPSSEVYAKTAPYHFFGVEVPIAGAAGDQQAALFGQACFTEGMAKNTYGT<br>GCFMLMNTGEKAVASKHGLLTIAWGIDGKVEYALEGSIFVAGSAIQWL RDGL<br>RMIKTAADSETYAEKVESTDGVYVVPFIGLGT PYWDSEVRGAVFGLTRGTTK<br>EHFIRATLESLAYQTKDVLAVMEADSGISLTTLRVDGGAVKNNFLMQFQSDLLA<br>VPVERPVVNETTALGAAYLAGLAVGYWNSRDDIAAQWQLERRFEPKMDDDK<br>RTMLYDGWKKAVRAAMAFK |
| <b>Research Area</b>       | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Names</b>          | glpK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Expression Region</b>   | 1-496aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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>         | 58.8kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Description</b> | Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Image</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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