



# Recombinant Rat Phosphoglycerate mutase 2 (Pgam2)

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|--------------------------|---|
| <b>Product Code</b>      | CSB-YP017835RA  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P16290  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MATHRLVMVR HGESSWNQEN RFCGWFDAEL SEKGAEAAKR GATAIKDAKI<br>EFDICYTSVL KRAIRTLWTI LDVTDQMWVP VVRTWRLNER HYGGLTGLNK<br>AETAAKHGEE QVKIWRRSFD TPPPMPDEKH NYIASISKDR RYAGLKPEEL<br>PTCESLKDTI ARALPFWNEE IAPKIKAGKR VLIAAHGNSL RGIVKHLEGM<br>SDQAIMELNL PTGIPIVYEL NQELKPTKPM RFLGDEETVR KAMEAVAAQG<br>KAK   |
| <b>Source</b>            | Yeast   |
| <b>Target Names</b>      | Pgam2   |
| <b>Protein Names</b>     | Recommended name: Phosphoglycerate mutase 2 EC= 3.1.3.13 EC= 5.4.2.1<br>EC= 5.4.2.4 Alternative name(s): BPG-dependent PGAM 2 Muscle-specific<br>phosphoglycerate mutase Phosphoglycerate mutase isozyme M Short name=<br>PG  |
| <b>Expression Region</b> | 1-253   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full length protein   |
| <b>Target Details</b>    | Phosphoglycerate mutase (PGAM) catalyzes the reversible reaction of 3-<br>phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic<br>pathway. The PGAM is a dimeric enzyme containing, in different tissues,<br>different proportions of a slow-migrating muscle (MM) isozyme, a fast-migrating<br>brain (BB) isozyme, and a hybrid form (MB). This gene encodes muscle-specific<br>PGAM subunit. Mutations in this gene cause muscle phosphoglycerate mutase<br>efficiency, also known as glycogen storage disease X. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>concentration of glycerol is 50%. Customers could use it as reference.   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients,<br>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.