

PGM2 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | Phosphopentomutase;Phosphodeoxyribomutase;Glucose phosphomutase 2; Phosphoglucomutase-2;PGM 2 |
| Protein Construction: | Met1-Asp612 |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | AAH10087.1 |
| Molecular Weight: | 65-75 KDa (reducing condition) |
| AA Sequence: | Met1-Asp612 |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. (QC verified) |
| Endotoxin: | < 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris-HCl, 200 mM NaCl, 0.06% Tween 80, pH8.0 |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Phosphoglucomutase-2 (PGM2) is a member of PGM family, which catalyzes the inter-conversion of sugar phosphates and participates in anabolic and catabolic reactions. When cells are grown in glucose, PGM catalyzes the conversion of glucose-6-phosphate to glucose-1-phosphate an important precursor required for the synthesis of UDP glucose and trehalose. PGM2 catalyzes the conversion of the nucleoside breakdown products ribose-1-

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phosphate and deoxyribose-1-phosphate to the corresponding 5-phosphopentoses, and it may also catalyze the interconversion of glucose-1-phosphate and glucose-6-phosphate. But this protein has low glucose 1,6-bisphosphate synthase activity.

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