

Recombinant Human PHGDH Protein

Catalog No.: RP03562LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	26227	O43175

Tags

N-His-TEV

Synonyms

PHGDH; PGDH3; D-3-phosphoglycerate dehydrogenase

Product Information

Source

E. coli

Purification

≥ 90% as determined by reducing SDS-PAGE.

Calculated MW

35.4 KDa

Observed MW

30-40 kDa

Endotoxin

Formulation

Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 5% glycerol, 1 mM DTT.

Reconstitution

Please use rapid thawing with running water to thaw the protein samples. For complete recovery, mix well and spin before use. Product must not be stored in diluted solutions. Aliquots below 10 μl are not advisable. Avoid repetitive freeze-thaw cycles!

Contact

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Background

Catalyzes the reversible oxidation of 3-phospho-D-glycerate to 3-phosphonoxypropionate, the first step of the phosphorylated L-serine biosynthesis pathway. Also catalyzes the reversible oxidation of 2-hydroxyglutarate to 2-oxoglutarate and the reversible oxidation of (S)-malate to oxaloacetate.

Basic Information

Description

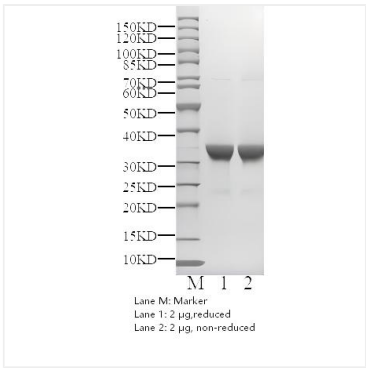
Recombinant Human PHGDH Protein is produced by *E. coli* system. The target protein is expressed with sequence (Ala4-Val315) of Human PHGDH (Accession #NP_006614.2) fused His-TEV tag at the N-Terminus.

Bio-Activity

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human PHGDH Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.