

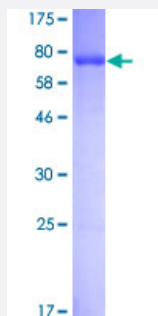
Full-Length

PHGDH (Human) Recombinant Protein (P01)

Catalog # H00026227-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PHGDH full-length ORF (AAH11262.1, 1 a.a. - 533 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAFANLRKVLISDSLDPCCRKILQDGGGLQVVEKQNLKEELIAELQDCEGLMRSATKVTADVINA
EKLQVVGRAGTGVDNVDLEAATRKILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKGK
WERKKFMGTELNKTLGILGLGRIGREVATRMQSFGMKTIGYDPIISPEVSASFVQQLPLEEWPL
CDFITVHTPLLPSTTGLLNDNTFAQCKKGVRVNCARGGIVDEGALLRALQSGQCAGAALDVFT
EPPRDRLVDHENVISCPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSFSPH
TKPWIGLAEALGTLMAWAGSPKGTIQVITQGTSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAK
LLVKEAGLNVTTSHSPAAPGEQGFGECLLAVALAGAPYQAVGLVQGTTPLVQLNGAVFRPEVP
LRRDLPLLLFRTQTSDPAMLPTMIGLLAEAGVRLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQ
HVTEAFQFHF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.37

Interspecies Antigen Sequence

Mouse (94); Rat (94)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PHGDH

Entrez GeneID	26227
GeneBank Accession#	BC011262
Protein Accession#	AAH11262.1
Gene Name	PHGDH
Gene Alias	3-PGDH, 3PGDH, MGC3017, PDG, PGAD, PGD, PGDH, SERA
Gene Description	phosphoglycerate dehydrogenase
Omim ID	601815 606879
Gene Ontology	Hyperlink
Gene Summary	3-Phosphoglycerate dehydrogenase (PHGDH; EC 1.1.1.95) catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD ⁺ /NADH as a cofactor.[supplied by OMIM]
Other Designations	3-phosphoglycerate dehydrogenase OTTHUMP00000013926

Pathway

- [Glycine](#)
- [Metabolic pathways](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Schizophrenia](#)