

Recombinant Human PHGDH, T7-tagged

Cat. No. PHGDH-851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PHGDH (1-533aa) is expressed in E.Coli with a T7 tag at N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-533 a.a.
Description	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.
MW	56519 Da.
Purity	95%.
Formulation	10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN ₃ .
Application	MS. SDS.

GENE INFORMATION

Gene Name	PHGDH phosphoglycerate dehydrogenase [Homo sapiens]
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Synonyms	PHGDH; phosphoglycerate dehydrogenase; RP4-683H9.1, 3-PGDH, 3PGDH, MGC3017, PDG, PGAD, PGD, PGDH, SERA; 3-phosphoglycerate dehydrogenase; D-3-phosphoglycerate dehydrogenase; EC 1.1.1.95
Gene ID	26227
mRNA Refseq	NM_006623
Protein Refseq	NP_006614
MIM	606879
UniProt ID	O43175
Chromosome Location	1p12
Pathway	Glycine, serine and threonine metabolism; Metabolic pathways
Function	NAD or NADH binding; cofactor binding; electron carrier activity; phosphoglycerate dehydrogenase activity
PDB rendering based on 2g76.	