

## Product datasheet for **TP303949M**

### PHGDH (NM\_006623) Human Recombinant Protein

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Recombinant Proteins  |
| Description:          | Recombinant protein of human phosphoglycerate dehydrogenase (PHGDH), 100 µg |
| Species:              | Human   |
| Expression Host:      | HEK293T   |
| Expression cDNA       | >RC203949 protein sequence  |
| Clone or AA Sequence: | Red=Cloning site Green=Tags(s)  |

MAFANLRKVLISDSLDPCCRKILQDGGGLQVVEKQNLKSKEELIAELQDCEGLIVRSATKVTADVINAEEKL  
QVVGRAGTGVDNVDLEAATRKGILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKDGGKWERKKFMG  
TELNGKTLGILGLGRIGREAVTRMQSFGMKTIGYDPIISPEVSASFGVQQLPLEEIWPLCDFITVHTPLL  
PSTTGLLNDNTFAQCKKGVVWNCARGGIVDEGALLRALQSGQCAGAALDVFTTEPPRDRALVDHENVIS  
CPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSAFSPHTKPWIGLAEALGTLMRWAGSP  
KGTIQVITQGTSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAKLLVKEAGLNVTTSHPAAPGEQGFGE  
CLLAVALAGAPYQAVGLVQGTTPLVQLGLNGAVFRPEVPLRRDLPLLLFRTQTSDPAMLPTMIGLLAEAGV  
RLLSYQTSLSVDGETWHVMGISSLLPSLEAWKQHVTEAFQFHF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

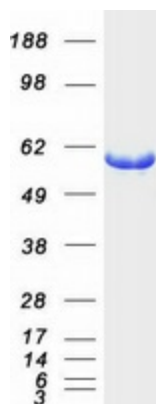
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 56.5 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage:       | Store at -80°C.  |
| Stability:     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |



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|                   |   |
|-------------------|---|
| RefSeq:           | <a href="#">NP_006614</a>   |
| Locus ID:         | 26227   |
| UniProt ID:       | <a href="#">O43175</a>  |
| RefSeq Size:      | 2021  |
| Cytogenetics:     | 1p12  |
| RefSeq ORF:       | 1599  |
| Synonyms:         | 3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA   |
| Summary:          | This gene encodes the enzyme which is involved in the early steps of L-serine synthesis in animal cells. L-serine is required for D-serine and other amino acid synthesis. The enzyme requires NAD/NADH as a cofactor and forms homotetramers for activity. Mutations in this gene have been found in a family with congenital microcephaly, psychomotor retardation and other symptoms. Multiple alternatively spliced transcript variants have been found, however the full-length nature of most are not known. [provided by RefSeq, Aug 2011] |
| Protein Families: | Druggable Genome, Stem cell - Pluripotency  |
| Protein Pathways: | Glycine, serine and threonine metabolism, Metabolic pathways  |

### Product images:



Coomassie blue staining of purified PHGDH protein (Cat# [TP303949]). The protein was produced from HEK293T cells transfected with PHGDH cDNA clone (Cat# [RC203949]) using MegaTran 2.0 (Cat# [TT210002]).