

Product datasheet for PH303949

PHGDH (NM_006623) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PHGDH MS Standard C13 and N15-labeled recombinant protein (NP_006614)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203949
Predicted MW:	56.7 kDa
Protein Sequence:	>RC203949 protein sequence Red=Cloning site Green=Tags(s)

MAFANLRKVLISDSLDPCCRKILQDGGLQVVEKQNL SKEELIAELQDCEGLIVRSATKVTADVINA AEKL
QVVGRAGTGVDNV DLEAATRKGILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKGKWERKKFMG
TELANGKTLGILGLGRIGREVATRMQSFGMKTIGYDPIISPEVSASFVQQLPLEEIWPLCDFITVHTPLL
PSTTGLLNDNTFAQCKKGVVVNCARGGIVDEGALLRALQSGQCAGAALDVFTTEPPRDRALVDHENVIS
CPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSAFSPHTKPWIGLAEALGTL MRAWAGSP
KGTIQVITQGTSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAKLLVKEAGLNVTTSHPAAPGEQGFGE
CLLAVALAGAPYQAVGLVQGTTPVLQGLNGAVFRPEVPLRRDLPLLLFRTQTS DPAMPLPTMIGLLAEAGV
RLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQHVTEAFQFHF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006614</u>
RefSeq Size:	2021
RefSeq ORF:	1599



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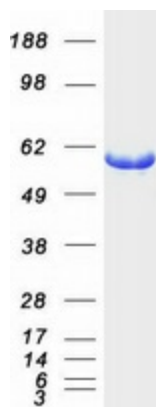
Synonyms: 3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA
Locus ID: 26227
UniProt ID: [O43175](#)
Cytogenetics: 1p12

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]).