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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

PHGDH, His-tag

Human, recombinant, C-terminal His tag
Catalog #: 71079
Lot #: 181214-B **Conc.:** 0.76 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 20% glycerol, 3mM DTT, and 300mM Imidazole.

Stability: At least 6 months at -80°C . Avoid freeze/thaw cycles.

Reference(s):

1. Mullarky, E., *et al.*, *Pigment Cell Melanoma Res.* 2011 Dec;**24(6)**:1112-5.
2. Liu, J., *et al.*, *J Neurooncol.* 2013 Feb;**111(3)**:245-55.

Description: Human phosphoglycerate dehydro-genase (PGDH), also known as PDG, amino-acids 1 – 533 (end) (GenBank Accession No. NM_006623) with C-terminal His tag, MW = 57 kDa, expressed in an *E. coli* expression system.

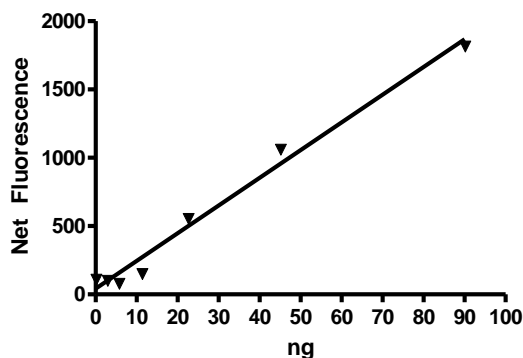
Specific Activity: 80 pmol/min/ μg

Assay Conditions: The reaction mixture contained 100 mM Tris-HCl, pH 8.8, 400 mM NaCl, 0.2 mM DTT, 2.5 mM 3-phospho-D-glyceric acid (Sigma P8877), 1 mM NAD, and various amount of PHGDH in a final volume of 50 μL . Reactions were initiated with the addition of PHGDH, and the increase in NADH fluorescence (Ex340/Em460 nm) was continuously monitored for 10 min at room temperature.

Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

Specific Activity



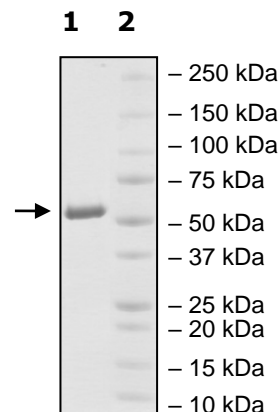
4-20% SDS-PAGE Coomassie staining

Lane 1:
PHGDH

Lane 2:
Protein Marker

Purity: $\geq 95\%$

MW:
57 kD



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Sequence:

MAFANLRKVLISDSLDPCCRKILQDGGLQVVEKQNLKEELIAELQDCEGLIVRSATK
VTADVINA AEKLQVVGRAGTGVDNVDLEAATRKGILVMNTPNGNSLSAAELTCGMIM
CLARQIPQATASMKDGKWERKKFMGTELNGKTLGILGLGRIGREVATRMQSFGMKT
GYDPIISPEVSASFGVQQLPLEEIWPLCDFITVHTPLLPSTTGLLNDNTFAQCKKGV
VNCARGGIVDEGALLRALQSGQCAGAALDVFTEEPPRDRALVDHENVISCPHLGAST
KEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSAFSPHTKPWIGLAEALGTLMRA
WAGSPKGTIQVITQGTSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAKLLVKEAGL
NVTTSHPAAPGEQGFGECLLAVALAGAPYQAVGLVQGTTPVLQGLNGAVFRPEVP
LRRDLPLLLFRTQTS DPAMLPTMIGLLAEAGVRLLSYQTSLSVSDGETWHVMGISSLLP
SLEAWKQHVTEAFQFHHHHHH

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