

Recombinant Human H6PD Protein, C-Myc/DDK-Tagged

Cat. No. H6PD-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human H6PD Protein, C-Myc/DDK-Tagged was expressed in HEK293T cells.
Species	Human
Source	HEK293
Description	There are 2 forms of glucose-6-phosphate dehydrogenase. G form is X-linked and H form, encoded by this gene, is autosomally linked. This H form shows activity with other hexose-6-phosphates, especially galactose-6-phosphate, whereas the G form is specific for glucose-6-phosphate. Both forms are present in most tissues, but H form is not found in red cells.
Molecular Mass	88.7 kDa
AA Sequence	MWNMLIVAMCLALLGCLQAQELQGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGR GHSFSFHGAALTAPKQGQELMAKALESLSCKDMAPSHCAEHKDQFLQLSQYRQL KTAEDYQALNKDIEAQLQHAGLREAGRIFYFSVPPFAYEDIARNINSSCRPGPGAWL RVVLEKPFPGHDHFSQAQQLATELGTFQEEEMYRVDHYLGKQAVAQILPFRDQNRKA LDGLWNRHHVERVEIMKETVDAEGRTSFYEEYGVIRDVLQNLTEVLTLMAMELPH NVSSAEAVLRHKLQVFQALRGLQRGSAVVGQYQSYSEQVRRELQKPDSEHSLTPTF AAVLVHIDNLRWEGVPFILMSGKALDERVGYARILFKNQACCVQSEKHAAAAQSQC LPRQLVFHGHGDLGSPAVLVSRNLFPSLPSSWKEMEGPPGLRFLFGSPLSDYYAY SPVQERDAHSVLLSHIFHGRKNFFITTENLLASWNFWTPLLES LAHKAPRLYPGGAE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NGRLLDFEFSSGRLFFSQQQPEQLVPGPGPAPMPSPDFQVLRKYRESPLVSAWSE
ELISKLANDIEATAVRVRRFGQFHLALSGGSSPVALFQQQLATAHYGFPWAHTHLWL
VDERCVPLSDPESNFQGLQAHLLQHVRIPYYNIHPMPVHLQQRLCAEEDQGAQIYA
REISALVANSSFDLVLLGMGADGHTASLFPQSPTGLDGEQLVLTSPSPHRRMSL
SLPLINRAKKVAVLVMGRMKREITTLVSRVGHEPKKWPISGVLP HSGQLVWYMDYD
AFLG

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80°C.
Concentration	50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

GENE INFORMATION

Gene Name	H6PD hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase [Homo sapiens (human)]
Official Symbol	H6PD
Synonyms	CORTRD1; G6PDH; GDH; H6PDH
Gene ID	9563

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mRNA Refseq	NM_001282587.2
Protein Refseq	NP_004276
MIM	138090
UniProt ID	O95479

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