

Recombinant Human H6PD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. H6PD-5662H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	H6PD MS Standard C13 and N15-labeled recombinant protein (NP_004276) with a C-terminal MYC/DDK tag, was expressed in HEK293 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	88.9 kDa
AA Sequence	MWNMLIVAMCLALLGCLQAQELQGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGR GHSFSFHGAALTAPKQGQELMAKALESLSCKDMAPSHCAEHKDQFLQLSQYRQL KTAEDYQALNKDIEAQLQHAGLREAGRIFYFSVPPFAYEDIARNINSSCRPGPGAWL RVVLEKPFQGHDFSAQQLATELGTFQEEEMYRVDHYLGKQAVAQILPFRDQNRKA LDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGVIRDVLQNLTEVLTLVAMELPH NVSSAEAVLRHKLQVFQALRGLQRGSAVVGQYQSYSEQVRRELQKPDSFHSLSLTPTF AAVLVHIDNLRWEGVPFILMSGKALDERVGYARILFKNQACCVQSEKHAAAAQSQC LPRQLVFHIGHGDLGSPAVLVSRNLFPSLPSSWKEMEGPPGLRFLFGSPLSDYYAY

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SPVQERDAHSVLLSHIFHGRKNFFITTENLLASWNFWTPLLES LAHKAPRLYPGGAE
 NGRLLDFEFSSGRLFFSQQQPEQLVPGPGPAPMP SDFQVLR AKYRESPLVSAWSE
 ELISKLANDIEATAVRARRFGQFHLALSGGSSPVALFQQLATAHYGFPWAHTHLWL
 VDERCVPLSDPESNFQGLQAHLLQHVRIPYYNIHPMPVHLQQRLCAEEDQGAQIYA
 REISALVANSSFDLVLLGMGADGHTASLFPQSPTGLDGEQLVVLTTSPSQPHRRMSL
 SLPLINRAKKVAVLVMGRMKREITTLVSRVGHEPKKWPISGVLPHSGQLVWYMDYD
 AFLGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name H6PD hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase [Homo sapiens (human)]

Official Symbol H6PD

Synonyms H6PD; hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase); GDH, glucose dehydrogenase; GDH/6PGL endoplasmic bifunctional protein; G6PD, H form; glucose dehydrogenase; glucose dehydrogenase; glucose 1- dehydrogenase; 6-phosphogluconolactonase; glucose-6-phosphate dehydrogenase, salivary; GDH; G6PDH; MGC87643; DKFZp686A01246;

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Gene ID	9563
mRNA Refseq	NM_004285
Protein Refseq	NP_004276
MIM	138090
UniProt ID	O95479
SDS-PAGE	