

Recombinant Full Length Human H6PD Protein, GST-tagged

Cat. No. H6PD-3413HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human H6PD full-length ORF (AAH81559.1, 1 a.a. - 791 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	791 amino acids
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. [provided by RefSeq
Molecular Mass	115.3 kDa
AA Sequence	MWNMLIVAMCLALLGCLQAQELQGHVSIILLGATGDLAKKYLWQGLFQLYLDEAGR GHSFSFHGAALTAPKQGQELMAKALESLSCKDMAPSHCAEHKDQFLQLSQYRQL KTAEDYQALNKDIEAQLQHAGLREAGRIFYFSVPPFAYEDIARNINSSCRPGPGAWL RVVLEKPFQHDHFSQAQQLATELGTFQEEEMYRVDHYLGKQAVAQILPFRDQNRKA LDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGVIRDVLQNHLEVLTLVAMELPH NVSSAEAVLRHKLQVFQALRGLQRGSAVVGQYQSYSEQVRRELQKPDSEHSLTPTF AAVLVHIDNLRWEGVPFILMSGKALDERVGYARILFKNQACCVQSEKHWAAAQSQC LPRQLVFHIGHGDLGSPAVLVSRNLFRPSLPSSWKEMEGPPGLRFGSPLSDYYAY

 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

SPVQERDAHSVLLSHIFHGRKNFFITTENLLASWNFWTPLLES LAHKAPRLYPGGAE
 NGRLLDFEFSSGRLFFSQQQPEQLVPGPGPAPMPSPDFQVLR AKYRESPLVSAWSE
 ELISKLANDIEATAVRARRFGQFHLALSGGSSPVALFQQ LATAHYGFPWAHTHLWL
 VDERCVPLSDPESNFQGLQAHL LQHVRIPYYNIHPMPVHLQQRLCAEEDQGAQIYA
 REISALVANSSFDLVLLGMGADGHTASLFPQSPTGLDGEQLVVLTTSPSQPHRRMSL
 SLPLINRAKKVAVLVMGRMKREITTLVSRVGHEPKKWPISGVLPHSGQLVWYMDYD
 AFLG

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

H6PD hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Homo sapiens]

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

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