

Full-Length

H6PD (Human) Recombinant Protein (P01)

Catalog # H00009563-P01

Size 50 ug

Specification

Product Description	Human H6PD full-length ORF (AAH81559.1, 1 a.a. - 791 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MWNMLIVAMCLALLGCLQAQELQGHVSILLGATGDLAKKYLWQGLFQLYLDEAGRHSFSFHGA ALTAPKQGQELMAKALESLSCKPKDAPSHCAEHKDQFLQLSQYRQLKTAEDYQALNKDIEAQLQ HAGLREAGRIFYFSVPPFAYEDIARNINSSCRPGPGAWLRVVLEKPFQGHDFSAQQLATELGTF QEEEMYRVDHYLGKQAVAQILPFRDQNRKALDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGV RDVLQNHLEVLTLVAMELPHNVSSAEAVLRHKLQVFQALRGLQRGSAVVGGYQSYSEQVRREL QKPDSFHSLTPTFAAVLVHIDNLRWEGVPFILMSGKALDERVGYARILFKNQACCVQSEKHWAAA QSQCLPRQLVFHIGHGDLGSPAVLVSRNLFPSLPSSWKEMEGPPGLRFGSPLSDYYAYSPVQ ERDAHSVLLSHIFHGRKNFFITTENLLASWNFWTPLLESLAHKAPRLYPGGAENGRLLDFEFSSGR LFFSQQQPEQLVPGPGPAPMPSPDFQVLRKYRESPLVSAWSEELISKLANDIEATAVRVRRFG QFHLALSGSSPVALFQQLATAHYGFPWAHTHLWLVDERCVPPLSDPESNFQGLQAHLQHVRI YNIHPMPVHLQQRLCAEEDQGAQIYAREISALVANSSFDLVLLGMGADGHTASLFPQSPTGLDG EQLVVLTTSPSQPHRRMSLSLPLINRAKKVAVLMGRMKREITTLVSRVGHEPKKWPISGVLPHS GQLVWYMDYDAFLG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	115.3
Interspecies Antigen Sequence	Mouse (83); Rat (82)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — H6PD

Entrez GeneID	9563
GeneBank Accession#	BC081559.1
Protein Accession#	AAH81559.1
Gene Name	H6PD
Gene Alias	DKFZp686A01246, G6PDH, GDH, MGC87643
Gene Description	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
Omim ID	138090 604931
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	6-phosphogluconolactonase G6PD, H form GDH/6PGL endoplasmic bifunctional protein OTTHU MP00000001703 glucose 1- dehydrogenase glucose dehydrogenase glucose dehydrogenase glucose-6-phosphate dehydrogenase, salivary hexose-6-phosphate dehydrogenase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of plant hormones](#)
- [Metabolic pathways](#)

- [Pentose phosphate pathway](#)

Disease

- [Dementia](#)
- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Polycystic Ovary Syndrome](#)