

Recombinant Full Length Human G6PD Protein, GST-tagged

Cat. No. G6PD-5127HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human G6PD full-length ORF (NP_001035810.1, 1 a.a. - 515 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	515 amino acids
Description	This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Molecular Mass	85.7 kDa
AA Sequence	MAEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRD GLLPENTFIVGYARSRLTVADIRKQSEPFKATPEEKLLKLEDFFARNSYVAGQYDDAA SYQRLNSHMNALHLGSQANRLFYLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPF GRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQNLMLVLRFANRIFGPIWNRDNIA

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CVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVVRDEK
 VKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYV
 ENERWDGVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAV
 YTKMMTKKPGMFFNPEESELDLTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRS
 ELREAWRIFTPLLHQIELEKPKPIPIYIYGSRGPTAEDELMKRVGFQYEGTYKWVNP
 KL

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 -80 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	G6PD glucose-6-phosphate dehydrogenase [Homo sapiens]
Official Symbol	G6PD
Synonyms	G6PD; glucose-6-phosphate dehydrogenase; glucose-6-phosphate 1-dehydrogenase; G6PD1; glucose-6-phosphate dehydrogenase, G6PD;
Gene ID	2539
mRNA Refseq	NM_000402

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Protein Refseq	NP_000393
MIM	305900
UniProt ID	P11413

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