

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	MAEQVALSRTQVCGLREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRD GLLPENTFIVGYARSRLTVADIRKQSEPPFKATPEEKLLKLEDDFFARNSYVAGQYDDAA SYQRLNSHMNALHLGSQANRLFYLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPF GRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQNLMVLRFANRIFGPIWNRDNIA

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CVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVRDEK
VKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYV
ENERWDGVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAV
YTKMMTKKPGMFFNPEESELDTYGNRYKNVKLPDAYERLILDVFCGSQMHFVRSD
ELREAWRIFTPLLHQIELEKPKPIPIYIGSRGPTEADELMKRVGFQYEGTYKWVNP
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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