Active Recombinant Full Length Human G6PD Protein, C-Flag-tagged

Cat. No. G6PD-422HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human G6PD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Acetylation substrate
Molecular Mass	62.3 kDa
AA Sequence	MGRRGSAPGNGRTLRGCERGGRRRRSADSVMAEQVALSRTQVCGILREELFQGD

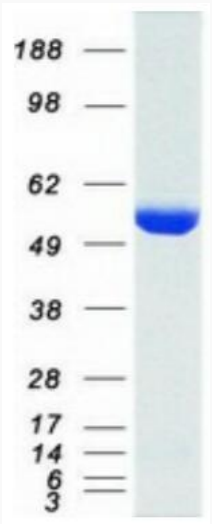
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	AFHQSDTHIFIIMGAS GDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRLTVADIRKQ SEPFFKATPEEKLKLEDFFARNSYVAG QYDDAASYQRLNSHMNALHLGSQANRLFY LALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSS DRLSNHISSLFREDQIY RIDHYLGKEMVQNLMVLRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYF DEFGI IRDVMQNHLLQMLCLVAMEKPASTNSDDVRDEKVKVLKCISEVQANNVVLGQYVGN PDGEGEATK GYLDDPTVPRGSTTATFAAVVLYVENERWDGVPFILRCGKALNERKA EVRLQFHDVAGDIFHQQCKRNEL VIRVQPNEAVYTKMMTKKPGMFFNPEESELDLT YGNRYKNVKLPDAYERLILDVFCGSQMHFVRSDELRE AWRIFTPLLHQIELEKPKPIPYIYGSRGPTEADELMKRVGFQYEGTYKWVNPHKLTRT RPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway
Full Length	Full L.

GENE INFORMATION

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Gene Name	G6PD glucose-6-phosphate dehydrogenase [Homo sapiens (human)]
Official Symbol	G6PD
Synonyms	G6PD1
Gene ID	2539
mRNA Refseq	NM_000402.4
Protein Refseq	NP_000393.4
MIM	305900
UniProt ID	P11413



Coomassie blue staining of purified G6PD protein.

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