Recombinant Human G6PD Protein, DYKDDDDK-tagged

Cat. No. G6PD-445H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the full-length sequence of homo sapiens glucose-6-phosphate dehydrogenase (G6PD), transcript variant 1 (NM_000402), with a DYKDDDDK tag was expressed in human cells.
Species	Human
Source	Human 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.
Molecular Mass	62.3 kDa
Endotoxin	< 0.1 ng/μg of protein (<1EU /μg)
Purity	> 90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and

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	protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives

GENE INFORMATION

Gene Name	G6PD glucose-6-phosphate dehydrogenase [Homo sapiens (human)]
Official Symbol	G6PD
Synonyms	G6PD; glucose-6-phosphate dehydrogenase; G6PD1; glucose-6-phosphate 1-dehydrogenase; epididymis secretory sperm binding protein; EC 1.1.1.49
Gene ID	2539
mRNA Refseq	NM_000402
Protein Refseq	NP_000393
MIM	305900
UniProt ID	P11413

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