

## 32-7668: Recombinant Human Glucose-6-Phosphate 1-Dehydrogenase/G6PD (C-6His)(Discontinued)

**Gene :** G6PD  
**Gene ID :** 2539  
**Uniprot ID :** P11413

### Description

Source: Human Cells.

MW :60.2kD.

Recombinant Human G6PD is produced by our Mammalian expression system and the target gene encoding Ala2-Leu515 is expressed with a 6His tag at the C-terminus. Glucose-6-Phosphate 1-Dehydrogenase (G6PD) is a cytosolic enzyme that belongs to the glucose-6-phosphate dehydrogenase family. G6PD participates in the pentose phosphate pathway that supplies reducing energy to cells by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH). G6PD produces pentose sugars for nucleic acid synthesis and main producer of NADPH reducing power. NADPH in turn maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. It is notable in humans that G6PD is remarkable for its genetic diversity. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** AEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRLTV  
ADIRKQSEPPFKATPEEKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGSQANRLFYLALPPTVYEAVT  
KNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISLFRDQIYRIDHYLGKEMVQNLMLVRFANRIFGPIWN  
RDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVRDEKVKVLKCISEVQA  
NNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYVENERWDGVPFILRCGKALNERKAEVRLQF  
HDVAGDIFHQQCKRNLVIRVQPNEAVYTKMMTKKPGMFFNPEESELDTYGNRYKNVKLPDAYERLILDVFCG  
SQMHFVRSDELREAWRIFTPLLHQIELEKPKIPYIYGSRGPTADELMKRVGFQYEGTYKVVNPHKLVDDHHHH  
HH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.