

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
ADIRKQSEPPFKATPEEKLKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGSQANRLFYLALPPTVYEAVT
KNIHESCMSQIGWNRRIIVEKPFGRDLQSSDRLSNHISLFRDQIYRIDHYLGKEMVQNLMLVLFANRIFGPIWN
RDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVDRDEKVKVLKCISEVQA
NNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYVENERWDGVPFILRCGKALNERKAEVRLQF
HDVAGDIFHQCKRNLVIRVQPNEAVYTKMMTKKPGMFFNPEESELDTYGNRYKNVKLPDAYERLILDVFCG
SQMHFVRSDELREAWRIFTPLLHQIELEKPKIPYIYGSRGPTADELMKRVGFQYEGTYKVVNPHKLVDDHHHH
HH

Application Note

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