

## Product datasheet for **TP726918**

### Glucose 6 Phosphate Dehydrogenase (G6PD) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Glucose-6-Phosphate 1-Dehydrogenase/G6PD (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ala2-Leu515
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Glucose-6-Phosphate 1-Dehydrogenase is produced by our Mammalian expression system and the target gene encoding Ala2-Leu515 is expressed with a 6His tag at the C-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	2539
UniProt ID:	<a href="#">P11413</a>
Summary:	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.



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