

# Recombinant Human Glucose-6-phosphate 1-dehydrogenase/G6PD Protein

Catalog No.: RP02937LQ

## Sequence Information

**Species**      **Gene ID**  
Human            2539

**Swiss Prot**    **Tags**  
P11413           C-His

### Synonyms

G6PD, G6PD1, glucose-6-phosphate dehydrogenase, G6PD1

## Product Information

**Source**            **Purification**  
HEK293 cells      ≥ 95 % as determined by SDS-PAGE.

**Calculated MW** **Observed MW**  
60.2 kDa            55-62 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Supplied as a 0.22 μm filtered solution in 20mM Citrate, 15% Trehalose, 150mM NaCl, 0.05% Tween 80, pH5.5.

### Reconstitution

## Background

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.

## Basic Information

### Description

Recombinant Human Glucose-6-phosphate 1-dehydrogenase/G6PD Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala2-Leu515) of human Glucose-6-phosphate 1-dehydrogenase/G6PD (Accession #NP\_001035810.1) fused with 6×His tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -70°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

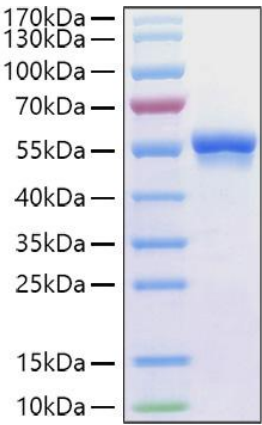
☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

**Validation Data**

---



Recombinant Human Glucose-6-phosphate 1-dehydrogenase/G6PD Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.