

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

Catalog No.: RP02937LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2539	P11413

Tags

C-His

Synonyms

G6PD; G6PD1; glucose-6-phosphate dehydrogenase;G6PD1

Product Information

Source	Purification
HEK293 cells	> 95 % as determined by SDS-PAGE

Endotoxin

<1EU/μg

Formulation

Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.

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.

Bio-Activity

Storage

This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze/thaw cycles.

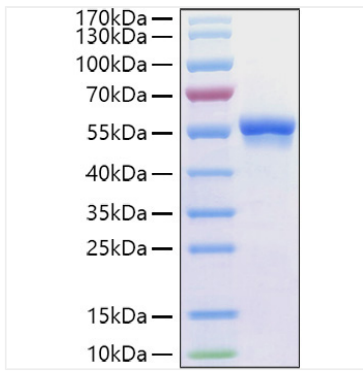
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Validation Data



Recombinant Human Glucose-6-phosphate 1-dehydrogenase/G6PD Protein was determined by SDS-PAGE with Coomassie Blue,