

Datasheet for ABIN666886

## Glucose-6-Phosphate Dehydrogenase Protein (G6PD) (AA 1-491)



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Protein Characteristics:	AA 1-491
Origin:	E. coli
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

#### Product Details

Characteristics:	G6PD,1-491aa, E.coli, Recombinant, E.coli
Purity:	> 90 % by SDS - PAGE

#### Target Details

Target:	Glucose-6-Phosphate Dehydrogenase (G6PD)
Alternative Name:	G6PD ( <a href="#">G6PD Products</a> )

**Background:** Glucose-6-phosphate dehydrogenase (G6PD) is the rate-limiting enzyme of the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells by maintaining the level of NADPH. G6PD converts glucose-6-phosphate into 6-phosphoglucono-delta-lactone and simultaneously produce NADPH. The NADPH in turn maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. G6PD deficiency cause acute hemolytic anemia. Recombinant G6PD protein was expressed in E.coli and purified

## Target Details

by conventional chromatography techniques. Synonyms: Glucose-6-phosphate 1-dehydrogenase, zwf, Glucose-6-phosphate 1-dehydrogenase G6PD, G6PD1, G6pdx, Glucose 6 phosphate 1 dehydrogenase, MET19, POS10, Zwf1p. NCBI no.: NP\_416366

Molecular Weight: 55.7kDa (491 aa), confirmed by MALDI-TOF.

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones](#)

## Application Details

Restrictions: For Research Use only

## Handling

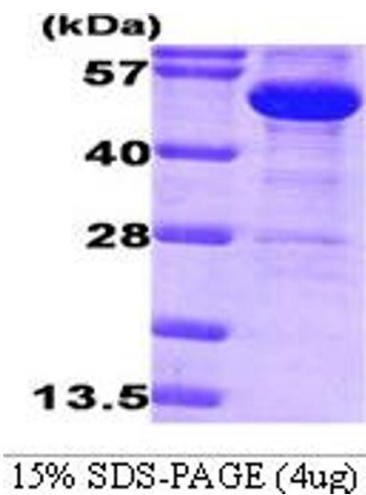
Format: Liquid

Concentration: 1 mg/ml (determined by Bradford assay)

Buffer: In 50 mM MES 6.0, 0.1 mM PMSF, 2 mM EDTA, 0.5 mM DTT, 10% glycerol

Storage: 4 °C

## Images



### SDS-PAGE

Image 1.