

## Product datasheet for TP301729

### PGD (NM\_002631) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human phosphogluconate dehydrogenase (PGD), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC201729 protein sequence  
Red=Cloning site Green=Tags(s)

MAQADIALIGLAVMGQNLILNMNDHGFVVCANRTVSKVDDFLANEAKGTKVWGAQSLKEMVSKLKKPR  
 R  
 IILLVKAGQAVDDFIEKLVPLLDGDIIDGGNSEYRDTRRCRDLKAKGILFVSGVSGGEEGARYGPS  
 LMPGGNKEAWPHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDV  
 LG  
 MAQDEMAQAFEDWNKTELDSFLIEITANILKFQD TDGKHLLPKIRDSAGQKGTGKWT AISALEYGV PVTL  
 IGEAVFARCLSSLKDERIQASKKLGPKQKFQFDGDKSFLIEDIRKALYASKIISYAQGFMLLRQAATEFG  
 WTLNYGGIALMWRGGCIIRSVFLGKIKDAFDRNPELQNL LDDFFKSAVENCQDSWRRRAVSTGVQAGIPM  
 PCFTTALSFYDGYRHEMLPASLIQAQRDYFGAHTYELLA KPGQFIHTNWTGHGGTVSSSSSYNA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

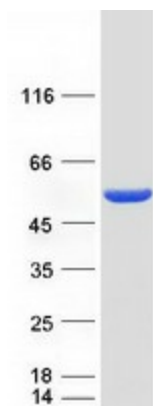
**Tag:** C-Myc/DDK  
**Predicted MW:** 53 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002622</a>
<b>Locus ID:</b>	5226
<b>UniProt ID:</b>	<a href="#">P52209</a>
<b>RefSeq Size:</b>	1937
<b>Cytogenetics:</b>	1p36.22
<b>RefSeq ORF:</b>	1449
<b>Synonyms:</b>	6PGD
<b>Summary:</b>	6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]
<b>Protein Pathways:</b>	Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

### Product images:



Coomassie blue staining of purified PGD protein (Cat# TP301729). The protein was produced from HEK293T cells transfected with PGD cDNA clone (Cat# [RC201729]) using MegaTran 2.0 (Cat# [TT210002]).