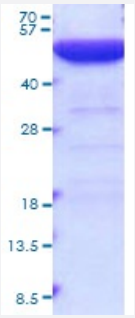
Bioactive Full-Length

# PGD (Human) Recombinant Protein

Catalog # P6801 Size 20 ug

## Applications




15% SDS-PAGE Stained with Coomassie Blue.

## Specification

| | |
|---|---|
| **Product Description** | Human PGD (NP_002622, 1 a.a. - 483 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*. |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 55.3 |
| **Form** | Liquid |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 90% by SDS-PAGE |
| **Activity** | Specific activity is > 10 unit/mg, in which one unit oxidize 1.0 umole of 6-phospho-D-gluconate to D-ribulose 5-phosphate per minute at pH 8.0 at 25°C, in the presence of beta-NADP. |
| **Quality Control Testing** | SDS-PAGE Stained with Coomassie Blue<br>15% SDS-PAGE Stained with Coomassie Blue. |
| **Recommend Usage** | SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 20 mM Tris-HCl, 1 mM DTT, 0.1 M NaCl, pH 8.0 (10% glycerol) |

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| | |
|---|---|
| **Storage Instruction** | Store at -20°C. For long term storage store at -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- SDS-PAGE

## Gene Info — PGD

| | |
|---|---|
| **Entrez GeneID** | 5226 |
| **Protein Accession#** | P52209 |
| **Gene Name** | PGD |
| **Gene Alias** | 6PGD |
| **Gene Description** | phosphogluconate dehydrogenase |
| **Omim ID** | 172200 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shu nt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is aut osomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydroge nase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies. [provid ed by RefSeq |
| **Other Designations** | 6-phosphogluconate dehydrogenase |

## Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of plant hormones
- Glutathione metabolism
- Metabolic pathways
- Pentose phosphate pathway

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## Disease

- Carcinoma
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hepatitis B
- Liver Neoplasms

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