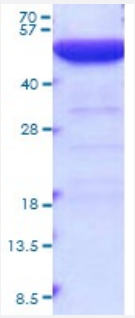
Bioactive Full-Length

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 15% SDS-PAGE Stained with Coomassie Blue.
Recommend Usage	SDS-PAGE 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)

Storage Instruction	Store at -20°C. For long term storage store at -80°C. 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

Disease

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