



Recombinant Protein Technical Manual
Recombinant Human PGD Protein (E. coli, His Tag)
RPES3622

Product Data:

Product SKU: RPES3622

Size: 50µg

Species: Human

Expression host: E. coli

Uniprot: P52209

Protein Information:

Molecular Mass: 54.6 kDa

AP Molecular Mass: 46 kDa

Tag: N-His

Bio-activity:

Purity: > 88 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 6-phosphogluconate dehydrogenase; Decarboxylating;PGD;PGDH;6PGD

Immunogen Information:

Sequence: Met 1-Ala 483

Background:

6-phosphogluconate dehydrogenase (PGD) is a cytoplasm-located protein, and belongs to the 6-phosphogluconate dehydrogenase family. 6PGD is the second dehydrogenase in the pentose phosphate shunt. It catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO₂, with concomitant reduction of NADP to NADPH. Mutations within the gene coding this enzyme result in 6-phosphogluconate dehydrogenase deficiency, an autosomal hereditary disease affecting the red blood cells.