



Recombinant Protein Technical Manual
Recombinant Human PGD Protein (Human Cells, His
Tag)
RPES4005

Product Data:

Product SKU: RPES4005

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P52209

Protein Information:

Molecular Mass: 54.2 kDa

AP Molecular Mass: 58 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

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

Application:

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

Immunogen Information:

Sequence: Met 1-Ala483

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 effecting the red blood cells.