

32-8454: Recombinant Human 6-Phosphogluconate Dehydrogenase, Decarboxylating/PGD (C-6His)

Gene : PGD
Gene ID : 5226
Uniprot ID : P52209

Description

Source: Human Cells.

MW :54.2kD.

Recombinant Human 6PGD is produced by our Mammalian expression system and the target gene encoding Met1-Ala483 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MAQADIALIGLAVMGQNLILNMNDHGFVVCFAFNRTVSKVDDFLANEAKGTVVGAQSLKEMVSKLKKPRRIILL
VKAGQAVDDFIEKLVPLLDGTGDIIDGGNSEYRDTRRCRDLKAKGILFVSGVSGGEEGARYGPSLMPGGNKE
AWPHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGMQLICEAYHLMKDVLGMAQDEMAQA
FEDWNKTELDNFLIEITANILKFQDQDGKHLKPKIRDSAGQKGTGKWTASALEYGVPTLIGEAVFARCLSSLKD
ERIQASKKLGPKQKQFDGDKKSFLEDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYYGGIALMWRGGCIIRS
VFLGKIKDAFDRNPELQNLDDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQ
AQRDYFGAHTYELLAQPGQFIHTNWTGHGGTVSSSSYNAVDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.