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PGD, 1-483aa, Human, His tag, E.coli

产品货号: TP03375

第三版

别名: Phosphogluconate dehydrogenase, 6PGD

描述: PGD (Phosphogluconate dehydrogenase), also known as 6PGD, is a 483 amino acid enzyme that is involved in the pentose phosphate shunt. Pentose is required for nucleic acid biosynthesis and the pentose phosphate cycle is a major source of NADPH. PGD deficiency increases the level of erythrocyte pyruvate kinase (PK) activity and reduces glutathione synthetase (GSH), resulting in hemolysis. Defects in PGD are generally asymptomatic and are inherited in an autosomal dominant fashion. Recombinant human PGD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

配方: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol

分子量: 55.3 kDa (503aa)

序列:

MGSSHHHHHSSGLVPRGSHMAQADIALIGLAVMGQNLILNMNDHGFVVCFAFNRTVSKVDDFLANEAKGTKVVGAAQ
SLKEMVSKLKKPRRIILLVKAGQAVDDFIEKLVPLDGTGDIIDGGNSEYRDTTRRCRDLKAKGILFVSGVSGGEEGARYGP
SLMPGGNKEAWPHIKTIFQGIAAKVGTGEPCCDWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLGMAQDE
MAQAFEDWNKTELDSFLIEITANILKFQDTDGKHLLPKIRDSAGQKGTGKWTASALEYGVPTLIGEA V FARCLSSLKDER
IQASKKLKGPQKFQFDGDKSFLEDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYGGIALMWRGGCIIRSVFLGKIKDA
FDRNPELQNLLDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQAQRDYFGAHTYELLA
KPGQFIHTNWTGHGGTVSSSSYNA

纯度: > 95% by HPLC

浓度: 1 mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.