

G6PD, 1-515aa, Human, His tag, Baculobirus

Cat.NO.: TP02170

3th Edition

Synonyms:Glucose-6-phosphate 1-dehydrogenase, G6PD1.

Description:Glucose-6-phosphate dehydrogenase (G6PD) is the rate-limiting enzyme of the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells by maintaining the level of NADPH. G6PD converts glucose-6-phosphate into 6-phosphoglucono-delta-lactone and simultaneously produce NADPH. The NADPH in turn maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1mM PMSF, 2mM EDTA, 2mM DTT, 200mM NaCl

Molecular Weight:61.4kDa (535aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMAEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLF
RDGLLPENTFIVGYARSRLTVADIRKQSEPFFKATPEEKLKLEDFFARNSYVAGQYDDAASYQRLNSHMNALHLGS
QANRLFYLALPPTVYEAVTKNIHESCMSQIGWNRRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQN
LMVLRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVRDE
KVKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYVENERWDGVPFILRCGKALN
ERKAEVRLQFHDVAGDIFHQCKRNELVIRVQPNEAVYTKMMTKKPGMFFNPEESELDLTYGNRYKNVKLPDAYE
RLILDVFCGSQMHFVRSDELREAWRIFTPLHMQIELEKPKPIPIYIYGSRGPTAEDELMKRVGFQYEGTYKWNPHKL

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.