



Recombinant Human G6PD Protein Product Manual

1. Product Basic Information

Product No.: REP06943

Protein Name: Glucose-6-Phosphate Dehydrogenase (G6PD)

Aliases: G6PD1; CNSHA1; glucose-6-phosphate dehydrogenase; glucose-6-phosphate 1-dehydrogenase; epididymis secretory sperm binding protein

UniProt ID: P11413

UniProt Link: <https://www.uniprot.org/uniprotkb/P11413/entry>

Species Source: Homo sapiens (Human)

Expression System: Yeast

Protein Length: Full Length of Mature Protein (2-515aa)

Molecular Weight: 60.1 kDa

Protein Tag: C-terminal 6xHis-tagged

2. Amino Acid Sequence (2-515aa)

AEQVALSRTQVCGILREELFQGDAFHQSDTHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRLTVADIRKQSEPFFKATPEEKLKLEDDFFARNSSYVAGQYDDAASYQRLNSHMNALHLGSQANRLFYLALPPTVYEAVTKNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQNLMLVRFANRIFGPIWNRDNIACVILTFKEPFGTEGRGGYFDEFGIIRDVMQNHLLQMLCLVAMEKPASTNSDDVREKVKVLKCISEVQANNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVLYVENERWDGVPFILRCGKALNERKAEVRLQFHDVAGDIFHQQCKRNELVIRVQPNEAVYTKMMTKKPGMFFNPPESELDLTGYNRYKNVKLPDAYERLILDVFCGSQMHFVRSDRELREAWRIFTPLLHQIELEKPKPIPIYIGSRGPTEADELMKRVGFQYEGTYKWWNPHKL

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human G6PD full length of mature protein protein (2-515aa) expressed in Yeast. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. G6PD, also known as G6PD1 or CNSHA1 or glucose-6-phosphate dehydrogenase, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.