

RPPB1662

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## Product Information    Protein Information

**Product SKU:**

RPPB1662

**Accession:**

P11413

**Host:**

Hi-5 cells.

**Protein description:**

G6PD Human Recombinant produced in Hi-5 cells is a single polypeptide chain containing 535 amino acids (1-515) and having a molecular mass of 61.4kDa. G6PD is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered colorless solution.

**Synonyms:**

G6PD, G6PD1, Glucose-6-phosphate 1-dehydrogenase.

**Formulation:**

The G6PD solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1mM PMSF, 2mM EDTA, 2mM DTT, 200mM NaCl and 20% glycerol.

**Purity:**

Greater than 95% as determined by SDS-PAGE.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid Sequence:**

MGSSHHHHHH SGLVPRGSH MAEQVALSRT QVCGILREEL FQGDAFHQSD THIFIIMGAS GDLAKKKIYP  
TIWWLFRDGL LPENTFIVGY ARSRLTVADI RKQSEPFKA TPEEKLKLED FFARNSYVAG QYDDAASYQR  
LNSHMNALHL GSQANRLFYL ALPPTVYEAV TKNIHESCMS QIGWNRIIVE KPFGRDLQSS DRLSNHSSL  
FREDQIYRID HYLKEMVQN LMLVRFANRI FGPIWNRDNI ACVILTFKEP FGTEGRGGYF DEFGIIRDVM  
QNHLLQMLCL VAMEKPASTN SDDVRDEKVK VLKCISEVQA NNVVLGQYVG NPDGEGEATK GYLDDPTVPR  
GSTTATFAAV VLYVENERWD GVPFILRCGK ALNERKAEVR LQFHDVAGDI FHQQCKRNL VIRVQPNEAV  
YTKMMTKKPG MFFNPEESEL DLTYGNRYKN VKLPDAYERL ILDVFCGSQM HFVRSDELRE AWRIFTPLLH  
QIELEKPKPI PYIYGSRGPT EADELMKRVG FQYEGTYKWV NPHKL

**Biological Activity:**

Specific activity is > 45 units/ml obtained by measuring the increase of beta-NADPH in absorbance at 340 nm resulting from the reduction of beta NADP. One unit oxidizes 1.0 umole D-glucose-6-phosphate to 6-phospho-D-gluconate per min in the presence of beta-NADP at pH 7.4 at 25C.