

**PGLS, 1-258aa, Human, His tag, E.coli**

**Cat.NO.: TP03383**

---

3th Edition

**Synonyms:**6-phosphogluconolactonase, 6PGL.

**Description:**6-phosphogluconolactonase, also known PGLS, is an enzyme in the second step pentose phosphate pathway, which is essential for the synthesis of nucleotide sugars and NADPH, the main source of reducing power. It converts 6-phosphogluconolactone to 6-phosphogluconate. Recombinant human PGLS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl

**Molecular Weight:**29.7 kDa (278aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMAAPAGLISVFSSSQELGAALAQLVAQRAACCLAGARARFALGLSGGSLVSMMLA  
RELPAAVAPAGPASLARWTLGFCDERLVPFDHAESTYGLYRTHLLSRLPIPESQVITINPELPVEEAAEDYAKKLRQA  
FQGDSIPVFDLLILGVGPDGHTCSLFPDHPLLQEREKIVAPISDSPKPPPQRVTLTLPVLNAARTVIFVATGEGKAAVL  
KRILEDQEENPLPAALVQPHTGKLCWFLDEAAARLLTVPFEKHSTL

**Purity:**> 95% by HPLC

**Concentration:**1 mg/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.