

## PGLS Human

**Description:** PGLS produced in E.Coli is a single, non-glycosylated polypeptide chain containing 278 amino acids (1-258a.a.) and having a molecular mass of 29.7kDa. PGLS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-023

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAAPAPGLIS VFSSSQELGA  
ALAQLVAQRA ACCLAGARAR FALGLSGGSL VSMLARELPA AVAPAGPASL ARWTLGFCDE  
RLVPFDHAES TYGLYRTHLL SRLPIPESQV ITINPELPVE EAAEDYAKKL RQAFQGDSIP  
VFDLLILGVG PDGHTCSLFP DHPLLQEREK IVAPISDSPK PPPQRVTLTL PVLNAARTVI  
FVATGEGKAA VL

**Purity:** Greater than 95% as determined by SDS-PAGE.

### Formulation:

The PGLS protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0) 1mM DTT, 100mM NaCl and 10% glycerol.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

PGLS is an enzyme in the second step pentose phosphate pathway. 6-Phosphogluconolactonase is crucial for the synthesis of nucleotide sugars and NADPH, the key cause for decreasing power. PGLS transforms 6-phosphogluconolactone to 6-phosphogluconate.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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