

Recombinant Human 6-phosphogluconolactonase, His-tagged

Cat. No. PGLS-2843H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PGLS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 29.7 kDa (278aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAAPAPGLIS VFSSSQELGA ALAQLVAQRA ACCLAGARAR FALGLSGGSL VSMLARELPA AVAPAGPASL ARWTLGFCDE RLVPFDHAES TYGLYRTHLL SRLPIPESQV ITINPELPVE EAAEDYAKKL RQAFQGDSIP VFDLLILGVG PDGHTCSLFP DHPLLQEREK IVAPISDSPK PPPQRVTTL PVLNAARTVI FVATGEGKAA VLKRILEDQE ENPLPAALVQ PHTGKLCWFL DEAAARLLTV PFEKHSTL
Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 100mM NaCl.

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Concentration	1 mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	PGLS 6-phosphogluconolactonase [Homo sapiens]
Synonyms	PGLS; 6-phosphogluconolactonase; 6PGL; EC 3.1.1.31
Gene ID	25796
mRNA Refseq	NM_012088
Protein Refseq	NP_036220
MIM	604951
UniProt ID	O95336
Chromosome Location	19p13.2
Pathway	Metabolic pathways; Pentose phosphate pathway
Function	6-phosphogluconolactonase activity; hydrolase activity; monosaccharide binding