

# **Product datasheet for AR52004PU-S**

#### OriGene Technologies, Inc.

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## Phosphoglycerate kinase 1 (PGK1) (1-417, His-tag) Human Protein

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Phosphoglycerate kinase 1 (PGK1) (1-417, His-tag) human protein, 20 μg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLLG KDVLFLKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG KGKDASGNKV KAEPAKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPQKAGGFLM KKELNYFAKA LESPERPFLA ILGGAKVADK IOLINNMLDK VNEMIIGGGM AFTFLKVLNN MEIGTSLFDE EGAKIVKDLM SKAEKNGVKI

IQLINNMLDK VNEMIIGGGM AFTFLKVLNN MEIGTSLFDE EGAKIVKDLM SKAEKNGVKI TLPVDFVTAD KFDENAKTGQ ATVASGIPAG WMGLDCGPES SKKYAEAVTR AKQIVWNGPV GVFEWEAFAR GTKALMDEVV KATSRGCITI IGGGDTATCC AKWNTEDKVS HVSTGGGASL

**ELLEGKVLPG VDALSNI** 

Tag: His-tag
Predicted MW: 46.8 kDa
Concentration: lot specific

Purity: >95% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris (pH 8.0), containing 10% Glycerol, 1 mM DTT

**Bioactivity:** Specific: > 600 units/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA

per minute at pH 8.0 at 37C.

**Endotoxin:** < 1.0 EU per 1 microgram of protein (determined by LAL method)

**Preparation:** Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** <u>NP 000282</u>

**Locus ID:** 5230



UniProt ID: P00558

Cytogenetics: Xq21.1

Synonyms: PGKA, PRP 2

**Summary:** The protein encoded by this gene is a glycolytic enzyme that catalyzes the conversion of 1,3-

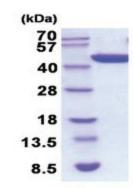
diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. Additionally, this protein is secreted by tumor cells where it participates in angiogenesis by functioning to reduce disulfide bonds in the serine protease, plasmin, which consequently leads to the release of the tumor blood vessel inhibitor angiostatin. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Deficiency of the enzyme is associated with a wide range of clinical phenotypes hemolytic anemia and neurological impairment. Pseudogenes of this gene have been defined on chromosomes 19, 21 and the X chromosome. [provided by

RefSeq, Jan 2014]

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycolysis / Gluconeogenesis, Metabolic pathways

### **Product images:**



15% SDS-PAGE (3ug)