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## Product Data Sheet

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Product Name: PGK2 Human, Active

Cat. No.: GP26194

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Phosphoglycerate kinase 2, dj417L20.2, PGKB, PGKPSS, Phosphoglycerate kinase, testis specific

Amino Acid Sequence

MGSSHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK  
 KNQITNNQRI KASIPSIKYC LDNGAKAVVL MSHLGRPDGV PMPDKYSLAP  
 VAVELKSLLG KDVFLKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG  
 KGQDPSGKKI KAEPDKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN  
 LPHKASGFLM KKELDYFAKA LENPVRPFLA ILGGAKVADK IQLIKNMLDK  
 VNEMIIIGGM AYTFLKVLNN MEIGASLFDE EGAKIVKDIM AKAQKNGVRI  
 TFPVDFVTGD KFDENAQVGK ATVASGISPG WMGLDCGPES NKNHAQVVAQ  
 ARLIVWNGPL GVFEWDAFAK GTKALMDEIV KATSKGCITV IGGGDTATCC  
 AKWNTEDKVS HVSTGGGASL ELLEGKILPGVEALSNM

Formulation The PGK2 solution (0.5mg/ml) contains 20% glycerol, 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 0.1M NaCl.

**Introduction**

PGK2, also known as Phosphoglycerate kinase 2, is a testis-specific form of phosphoglycerate kinase. Originally, it was assumed that PGK2 was a pseudogene. However, nowadays it is known that this protein is a functional phosphoglycerate kinase. During the Embden-Meyerhof-Parnas pathway of glycolysis, in the later stages of spermatogenesis, the protein catalyses the reversible conversion of 1, 3-bisphosphoglycerate to 3-phosphoglycerate.

**Biological Activity**

Specific activity > 500 unit/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37°C.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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.

### Background

PGK2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 437 amino acids (1-417a.a.) and having a molecular mass of 46.9kDa. PGK2 is fused to a 20 amino acid His tag at N-Terminus and purified by proprietary chromatographic techniques.

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