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PGK2 Human

Catalog #:PKPS-024

For research use only.

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

Synonyms: Phosphoglycerate kinase 2, Phosphoglycerate kinase testis specific, PGK2, PGKB, PGKPS, dJ417L20.2.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK KNQITNNQRI KASIPSIKYC LDNGAKAVVL MSHLGRPDGV PMPDKYSLAP VAVELKSLLG KDVLFLKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG KGQDPSGKKI KAEPDKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPHKASGFLM KKELDYFAKA LENPVRPFLA IL

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
PGK2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 1mM DTT and 0.1M NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
PGK2 is a testis-specific form of phosphoglycerate kinase. Originally presumed to be a pseudogene, the PGK2 protein is actually a functional phosphoglycerate kinase which catalyzes the reversible conversion of 1,3-bisphosphoglycerate to 3-phosphoglycerate, during the Embden-Meyerhof-Parnas pathway of glycolysis, in the later stages of spermatogenesis. The PGK2 gene is intronless, results from retrotransposition of the phosphoglycerate kinase 1 gene, and is expressed specifically in the testis.

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