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32-6994: PGK2 Human, Active

Application : Functional Assay
Alternative Name : Phosphoglycerate kinase 2, dJ417L20.2, PGKB, PGKPSS, Phosphoglycerate kinase, testis specific

Description

Source: Escherichia Coli.
Sterile Filtered colorless solution.
PGK2, also known as Phosphoglycerate kinase 2, is a testis-specific form of phosphoglycerate kinase.Originally, it was assumed that PGK2was a pseudogene. However, nowadays it is known that this protein is a functional phosphoglycerate kinase. During the Embden-Meyerhof-Parnas pathway of glycolysis, in thelater stages of spermatogenesis, the protein catalyses the reversible conversion of 1, 3- bisphosphoglycerate to 3-phosphoglycerate.
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.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The PGK2 solution (0.5mg/ml) contains 20% glycerol, 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 0.1M NaCl.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MSLSKKLTLD KLDVRGKRVI MRVDFNVPMK KNQITNNQRI KASIPSIKYC LDNGAKAVVL MSHLGRPDGV PMPDKYSLAP VAVELKSLLG KDVLFLKDCV GAEVEKACAN PAPGSVILLE NLRFHVEEEG KGQDPSGKKI KAEPDKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPHKASGFLM KKELDYFAKA LENPVRPFLA ILGGAKVADK IQLIKNMLDK VNEMIIGGGM AYTFLKVLNN MEIGASLFDE EGAKIVKDIM AKAQKNGVRI TFPVDFVTGD KFDENAQVGK ATVASGISPG WMGLDCGPES NKNHAQVVAQ ARLIVWNGPL GVFEWDAFAK GTKALMDEIV KATSKGCITV IGGGDTATCC AKWNTEDKVS HVSTGGGASL ELLEGKILPGÂ VEALSNM

Application Note

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

For Research Use Only. Not for use in diagnostic/therapeutics procedures.