PGK2, human recombinant

CATALOG #: 7820-50 50 µg

ALTERNATE NAMES: Phosphoglycerate kinase 2, dJ417L20.2, PGKB, PGKPSS

SOURCE: E. Coli

PURITY: > 85% by SDS - PAGE

MOL. WEIGHT: 46.9 kDa (437 aa, 1-417 aa + His Tag)

FORM: Liquid

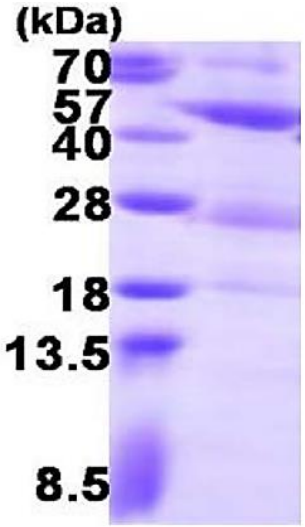
FORMULATION: 0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl and 1 mM DTT

STORAGE CONDITIONS:
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.

DESCRIPTION:
PGK2 is a testis-specific form of phosphoglycerate kinase. Initially assumed to be a pseudogene, this protein is actually a functional phosphoglycerate kinase that 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. Recombinant human PGK2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

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 ILGGAKVADK IQLIKNMLDK VNEMIIGGGM AYTFLKVLNN MEIGASLFDE EGAKIVKDIM AKAQKNGVRI TFPVDFVTGD KFDENAQVGK ATVASGISPG WMGLDCGPES NKNHAQVVAQ ARLIVWNGPL GVFEWDAFAK GTKALMDEIV KATSKGCITV IGGGDTATCC AKWNTEDKVS HVSTGGGASL ELLEGKILPG VEALSNM

BIOLOGICAL ACTIVITY:
Specific activity is >11 units/mg. One unit will convert 1.0 µmole of beta-NADH per minute in a coupled system with GAPDH at pH 8.0 at 25ºC



15% SDS-PAGE (3ug)
Human Recombinant PGK2

RELATED PRODUCTS:
- PGK1, human recombinant **(Cat. No. 7819-100)**
- 2-Phosphoglycerate Colorimetric/Fluorometric Assay Kit **(Cat. No. K778-100)**

FOR RESEARCH USE ONLY! Not to be used in humans.