

## pykF E.Coli

**Description:** pykF E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 494 amino acids (1-470 a.a) and having a molecular mass of 53.3kDa. pykF is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PKPS-035

For research use only.

**Synonyms:** Pyruvate kinase I, PK-1, pykF, b1676, JW1666.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMKKTKI VCTIGPKTES  
EEMLA KMLDA GMNVMRLNFS HGDYAEHGQR IQNLRNVMSK TGKTAAILLD TKGPEIRTMK  
LEGGNDVSLK AGQTFTFTTD KSVIGNSEMV AVTYEGFTTD LSVGNTVLVD DGLIGMEVTA  
IEGNKVICKV LNNDDLGENK GVNLPGVISA LPALAEKDKQ DLIFGCEQGV DFVAASFIRK  
RSDVIEIREH LK

**Purity:** Greater than 95% as determined by SDS-PAGE.

**Formulation:**

pykF protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.

**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 drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

pykF (pyruvate kinase I) is a member of the pyruvate kinase family. pykF is an enzyme involved in glycolysis. pykF catalyzes the transfer of a phosphate group from phosphoenolpyruvate (PEP) to ADP, yielding one molecule of pyruvate and one molecule of ATP, a process which also requires a Magnesium ion. This is the final step in the glycolytic pathway, which produces pyruvate molecules, the ultimate product of aerobic glycolysis.

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