

AR50327PU-S**pykF (1-470, His-tag) - Purified****Alternate names:**

ECK1672, JW1666, pyruvate kinase I

Quantity:

0.1 mg

Concentration:

1mg/ml (determined by Bradford assay)

Background:

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

Uniprot ID:[POAD61](#)**NCBI:**[NP_416191.1](#)**GeneID:**[946179](#)**Source:**

E. coli

Format:**State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol**Description:**

Recombinant E.coli pykF protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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MGSSHHHHHH SGLVPRGSH MGSMMKTKI VCTIGPKTES EEMLAKMLDA GMNVMRLNFS
HGDYAEHGQR IQNLRNVMSK TGKTAAILLD TKGPEIRTMK LEGGNDVSLK AGQTFTFTTD
KSVIGNSEMV AVTYEGFTTD LSVGNTVLVD DGLIGMEVTA IEGNKVICKV LNNGDLGENK
GVNLPGVSLA LPALAEKDKQ DLIFGCEQGV DFVAASFIRK RSDVIEIREH LKAHGGENIH
IISKIENQEG LNNFDEILEA SDGIMVARGD LGVEIPVEEV IFAQKMMIEK CIRARKVVIT
ATQMLDSMIK NPRPTRAEG DVANAILDGT DAVMLSGESA KGKYPLEAVS IMATICERTD
RVMNSRLEFN NDNRKLRITE AVCRGAVETA EKLDAPLIVV ATQGGKSARA VRKYFPDATI
LALTTNEKTA HQLVLSKGVV PQLVKEITST DDFYRLGKEL ALQSGLAHKG DVVVMVSGAL
VPSGTTNTAS VHVL
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Molecular weight: 53.3 kDa (494aa)**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Liapounova, Na, et al. (2006) Eukaryotic cell 5 (12): 2138-46, Valentini G., et al. (2000) J. Biol. Chem. 275:18145-18152

Pictures:

