

Recombinant E.coli pykF, His-tagged

Cat. No. pykF-15843E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli pykF protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
ProteinLength	1-470aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	53.3kDa (494aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMMKTKI VCTIGPKTES EEMLAKMLDA GMNVMRLNFS HGDYAEHGQR IQNLRNVMSK TGKTAAILLD TKGPEIRTMK LEGGNDVSLK AGQTFTFTTD KSVIGNSEMV AVTYEGFTTD LSVGNTVLVD DGLIGMEVTA IEGNKVICKV LNNGDLGENKGVNLPGVSA LPALAEKDKQ DLIFGCEQGV DFVAASFIRK RSDVIEIREH LKAHGGGENIH IISKIENQEG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LNNFDEILEA SDGIMVARGD LGVEIPVEEV IFAQKMMIEK CIRARKVVIT
 ATQMLDSMIK NPRPTRAEG DVANAILDGT DAVMLSGESA KGKYPLEAVS
 IMATICERTDRVMNSRLEFN NDNRKLRITE AVCRGAVETA EKLDAPLIVV
 ATQGGKSARA VRKYFPDATI LALTTNEKTA HQLVLSKGVV PQLVKEITST
 DDFYRLGKEL ALQSGLAHKG DVVVMVSGAL VPSGTTNTAS VHVL

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [pykF pyruvate kinase I \[Escherichia coli str. K-12 substr. MG1655 \]](#)

Official Symbol [pykF](#)

Synonyms [pykF](#); [ECK1672](#); [JW1666](#); pyruvate kinase I; pyruvate kinase I (formerly F), fructose stimulated

Gene ID [946179](#)

Protein Refseq [NP_416191](#)

Pathway Biosynthesis of secondary metabolites, organism-specific biosystem; ChREBP activates metabolic gene expression, organism-specific biosystem; Glucose metabolism, organism-specific biosystem

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