

**pykF, 1-470aa, E.coli, His tag, E.coli**

**Cat.NO.: TP03611**

3th Edition

**Synonyms:**Pyruvate kinase I, ECK1672, JW1666.

**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 Weight:**53.3kDa (494aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMKKTKIVCTIGPKTESEEMLAKMLDAGMNVMLNFSHGDYAEHGQRIQNL  
RNVMSKTGKTAAILLDTKGPEIRTMKLEGGNDVSLKAGQTFFTTDDKSVIGNSEMVAVTYEGFTTDLVSGNTVLVDD  
GLIGMEVTAIEGNKVICKVLNNGDLGENKGVNLPGVSIAPALAEKDKQDLIFGCEQGVDFVAASFIRKRSVIEIREH  
LKAHGGENIHIISKIENQEGLNNFDEILEASDGIMVARGDLGVEIPVEEVIFAQKMMIEKCIRARKVVITATQMLDSMIK  
NPRPTRAEGDVANAILDGTDAVMLSGESAKGKYPLEAVSIMATICERTDRVMNSRLEFNNDNRKLRITEAVCRGA  
VETAEKLDAPLIVVATQGGKSARAVRKYFPDATILALTTNEKTAHQLVLVSKGVVPQLVKEITSTDDFYRLGKELALQS  
GLAHKGDVVVMVSGALVPSGTTNTASVHVL

**Purity:**> 95% by HPLC

**Concentration:**1mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**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.