Product Data Sheet

Product Name:	pykF E.Coli
Cat. No.:	GP22622
Batch No.:	1

Product Data

Purity	>98%	Source	E.coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyruvate kinase I; PK-1; pykF; b1676; JW1666.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMKKTKI VCTIGPKTES EEMLAKMLDA GMNVMRLNFS HGDYAEHGQR IQNLRNVMSK TGKTAAILLD TKGPEIRTMK LEGGNDVSLK AGQTFTFTTD KSVIGNSEMV AVTYEGFTTD LSVGNTVLVD DGLIGMEVTA IEGNKVICKV LNNGDLGENK GVNLPGVSIA LPALAEKDKQ DLIFGCEQGV DFVAASFIRK RSDVIEIREH LKAHGGENIH IISKIENQEG LNNFDEILEA SDGIMVARGD LGVEIPVEEV IFAQKMMIEK CIRARKVVIT ATQMLDSMIK NPRPTRAEAG DVANAILDGT DAVMLSGESA KGKYPLEAVS IMATICERTD RVMNSRLEFN NDNRKLRITE AVCRGAVETA EKLDAPLIVV ATQGGKSARA VRKYFPDATI LALTTNEKTA HQLVLSKGVV PQLVKEITST DDFYRLGKEL ALQSGLAHKG DVVVMVSGAL VPSGTTNTAS VHVL.		
Formulation	pykF protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

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.

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%

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HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

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.

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