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Recombinant e.coli ndk protein

Catalog Number: ATGP1424

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-143aa

UniProt No.

P0A763

NCBI Accession No.

NP 417013

Alternative Names

Nucleoside diphosphate kinase, ECK2514, JW2502

PRODUCT SPECIFICATION

Molecular Weight

18 kDa (167aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl,1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

ndk, also known as Nucleoside diphosphate kinase, is an enzyme that catalyzes the exchange of phosphate groups between different nucleoside diphosphates. This protein activity maintains an equilibrium between the concentrations of different nucleoside triphosphates such as, for example, when GTP produced in the citric acid (Krebs) cycle is converted to ATP. Recombinant E. coli ndk protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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Amino acid Sequence

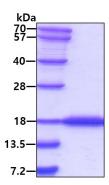
<MGSSHHHHHH SSGLVPRGSH MGSH>MAIERT FSIIKPNAVA KNVIGNIFAR FEAAGFKIVG TKMLHLTVEQ ARGFYAEHDG KPFFDGLVEF MTSGPIVVSV LEGENAVQRH RDLLGATNPA NALAGTLRAD YADSLTENGT HGSDSVESAA REIAYFFGEG EVCPRTR

General References

Lee B. et al. (2009) FEBS Lett. 583:3291-3295 Kihara A. et al. (2011) Biosci Biotechnol Biochem, 75:1740-1745

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

