

# Recombinant e.coli ndk protein

Catalog Number: ATGP1424

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-143aa

### UniProt No.

P0A763

### NCBI Accession No.

NP\_417013

### Alternative Names

Nucleoside diphosphate kinase, ECK2514, JW2502

## PRODUCT SPECIFICATION

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### 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

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### 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 FSIKPNVA KNVIGNIFAR FEAAGFKIVG TKMLHLTVEQ ARGFYAHDG  
KPFDFGLVEF MTSGPIVSV LEGENAVQRH RDLLGATNPA NALAGTLRAD YADSLTENGT HGSDSVESAA REIAYFFGEG  
EVCPRTR

## General References

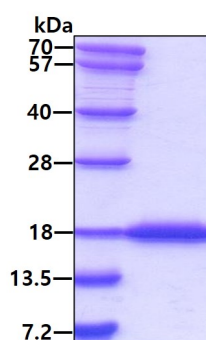
Lee B. et al. (2009) FEBS Lett. 583:3291-3295

Kihara A. et al. (2011) Biosci Biotechnol Biochem, 75:1740-1745

## DATA

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### SDS-PAGE



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