

**AR50249PU-N****ndk (1-143, His-tag) - Purified****Alternate names:**

ECK2514, JW2502, Nucleoside diphosphate kinase

**Quantity:**

0.5 mg

**Concentration:**

1.0 mg/ml (determined by Bradford assay)

**Background:**

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.

**Uniprot ID:**[P0A763](#)**NCBI:**[NP\\_417013.1](#)**GeneID:**[945611](#)**Source:**

E. coli

**Format:****State:** Liquid purified protein**Purity:** >95% by SDS - PAGE**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl, 1mM DTT**Description:**

Recombinant E. coli ndk protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHH SSGLVPRGSH MGSMAIERT FSIKPNVA KVNIGNIFAR FEAAGFKIVG  
TKMLHLTVEQ ARGFYAEHDG KPFFDGLVEF MTSGPIVVSV LEGENAVQRH RDLLGATNPA  
NALAGTLRAD YADSLTENG T HGSDSVESAA REIAYFFGEG EVCPRTR

**Molecular weight:** 18.0 kDa (167aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

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