

NDPK Protein, *S. cerevisiae*, Recombinant (*E. coli*, His)

General Information

Synonyms:	NDK1;YNK1;YNK;Nucleoside diphosphate kinase;NDP kinase;NDK
Protein Construction:	1-153 aa
Species:	<i>Saccharomyces cerevisiae</i>
Expression Host:	<i>E. coli</i>
Accession:	P36010
Molecular Weight:	21.2 kDa (predicted)
AA Sequence:	MSSQTERTFIAVKPDGVQRGLVSQLSRFEKKGKYLVAIKLVKADDKLEQHYAEHVGKPFPPKMSVFMKSGPI LATVWEGKDVVRQGRITLIGATNPLGSAPGTIRGDFIDLGRNVCHGSDSVDSAEREINLWFKKEELVDWESN QAKWIYE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate. Required for repair of UV radiation- and etoposide-induced DNA damage.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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