

# Recombinant Human NAD Kinase/NADK Protein (His Tag)



Catalog Number:PKSH032782

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | NAD Kinase;Poly(P)/ATP NAD Kinase;NADK |
| <b>Species</b>                     | Human                                  |
| <b>Expression Host</b>             | E.coli                                 |
| <b>Sequence</b>                    | Ser64-Gly446                           |
| <b>Accession</b>                   | AAH01709.1                             |
| <b>Calculated Molecular Weight</b> | 44.4 kDa                               |
| <b>Observed molecular weight</b>   | 49 kDa                                 |
| <b>Tag</b>                         | N-His                                  |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.   |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 $\mu$ m filtered solution of 50mM Tris-HCl, 150mM NaCl, 1mM DTT, pH 7.5.   |
| <b>Reconstitution</b> | Not Applicable   |

## Background

NAD Kinase (NADK) is an enzyme that belongs to the NAD Kinase family. It is a widely expressed enzyme, but it is not detected in skeletal muscle. NADK converts Nicotinamide Adenine Dinucleotide (NAD+) into NADP+, through phosphorylating the NAD+ coenzyme. NADP+ is an essential coenzyme in metabolism and provides reducing power to biosynthetic processes such as fatty acid biosynthesis. The structure of the NADK from the archaean *Archaeoglobus fulgidus* has been determined.

## For Research Use Only

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