

**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 µg 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 µm 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<sup>+</sup>) into NADP<sup>+</sup>, through phosphorylating the NAD<sup>+</sup> coenzyme. NADP<sup>+</sup> 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.

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