



NAD Kinase Recombinant Protein

CATALOG NUMBER: 91-250

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Ser64-Gly446
FUSION TAG:	N-6 His tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.

Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PREDICTED MOLECULAR WEIGHT:	44.4 kD
PHYSICAL STATE:	Liquid
BUFFER:	Supplied as a 0.2 um filtered solution of 50mM TrisHCl, 150mM NaCl, 1mM DTT, pH 7.5. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH ₂ O.
STORAGE CONDITIONS:	Store at -20°C, stable for 6 months after receipt. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Additional Info

ALTERNATE NAMES:	NAD Kinase, Poly(P)/ATP NAD Kinase, NADK
ACCESSION NO.:	O95544

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

December 14, 2016