



Recombinant Protein Technical Manual
Recombinant Human NAD Kinase/NADK Protein (His
Tag)
RPES5165

Product Data:

Product SKU: RPES5165

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O95544

Protein Information:

Molecular Mass: 44.4 kDa

AP Molecular Mass: 49 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 50mM TrisHCl, 150mM NaCl, 1mM DTT, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: NAD Kinase; Poly(P)/ATP NAD Kinase; NADK

Immunogen Information:

Sequence: Ser64-Gly446

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.