

NAD Kinase, human recombinant

CATALOG #:	7560-10	10 µg
ALTERNATE NAMES:	NADK; Poly (P)/ATP NAD Kinase; EC 2.7.1.23.	
SOURCE:	E. Coli	
PURITY:	≥ 95% by SDS-PAGE gel	
MOL. WEIGHT:	~50 kDa (monomer). Human full length NAD kinase (aa 1-446) is fused at the N-terminus to a His-tag.	
ENDOTOXIN LEVEL:	N/A. Free of any nucleotide converting side-activities.	
FORM:	Liquid	
FORMULATION:	1 mg/ml of ammonium sulphate suspension.	
RECONSTITUTION:	Prepare working aliquots by centrifugation and dissolve the pellet in 50 mM Tris-HCl pH 7.5, 150 mM sodium chloride and 1 mM DTT.	
STORAGE CONDITIONS:	Prepare aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.	
DESCRIPTION:	NAD kinase catalyzes the transfer of a phosphate group from ATP to NAD ⁺ to generate NADP ⁺ , which in its reduced form acts as an electron donor for biosynthetic reactions. NADP ⁺ is an essential coenzyme in metabolism and provides reducing power to biosynthetic processes such as fatty acid biosynthesis.	
BIOLOGICAL ACTIVITY:	≥ 1U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1 µmol of NADP per min.	

RELATED PRODUCTS:

- NAD Kinase (catalytic domain), human recombinant (**Cat. No. 7559-10**)
- NAD/NADH Quantitation Colorimetric Kit (**Cat. No. K337-100**)
- NADP/NADPH Quantitation Colorimetric Kit (**Cat. No. K347-100**)
- PicoProbe™ NADH Fluorometric Assay Kit (**Cat. No. K338-100**)
- PicoProbe™ NADPH Quantitation Fluorometric Assay Kit (**Cat. No. K349-100**)

FOR RESEARCH USE ONLY! Not to be used in humans.