

# NAD Kinase (catalytic domain), human recombinant

<b>CATALOG #:</b>	7559-10	10 µg
<b>ALTERNATE NAMES:</b>	NADK; Poly (P)/ATP NAD Kinase; EC 2.7.1.23.	
<b>SOURCE:</b>	E. Coli	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel	
<b>MOL. WEIGHT:</b>	~42 kDa (monomer). Human NAD kinase (aa 64-446) is fused at the N-terminus to a His-tag.	
<b>ENDOTOXIN LEVEL:</b>	N/A. Free of any nucleotide converting side-activities.	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	1 mg/ml of ammonium sulphate suspension.	
<b>RECONSTITUTION:</b>	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.	
<b>STORAGE CONDITIONS:</b>	Prepare aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.	
<b>DESCRIPTION:</b>	NAD kinase catalyzes the transfer of a phosphate group from ATP to NAD <sup>+</sup> to generate NADP <sup>+</sup> , which in its reduced form acts as an electron donor for biosynthetic reactions. NADP <sup>+</sup> is an essential coenzyme in metabolism and provides reducing power to biosynthetic processes such as fatty acid biosynthesis.	
<b>BIOLOGICAL ACTIVITY:</b>	≥ 2U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1 µmol of NADP per min.	

**RELATED PRODUCTS:**

- NAD Kinase, human recombinant (**Cat. No. 7560-10**)
- 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.**