Creative Enzymes®

NAD Kinase (catalytic domain) from Human, recombinant

Cat. No. NATE-1670

Lot. No. (See product label)

Introduction

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.
Synonyms	NADK; Poly (P)/ATP NAD Kinase; EC 2.7.1.23

Product Information

Species	Human
Source	E. coli
Form	Liquid
Formulation	2 mg/mL solution in 20 mM Tris, pH 8 containing 20% glycerol.
EC Number	EC 2.7.1.23
Molecular Weight	~42 kDa (monomer). Human NAD kinase (aa 64-446) is fused at the N-terminus to a His-tag.
Purity	> 95% by SDS-PAGE
Activity	> 2U/mg protein
Concentration	1 mg/ml
Unit Definition	One unit is defined as the amount of enzyme that synthesizes 1 μmol of NADP per min.

Usage and Packaging

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 and Shipping Information

Storage	Prepare aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.