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Datasheet for ABIN2745748

NADK Protein

Overview

Quantity:	50 µg
Target:	NADK
Origin:	Bacillus subtilis
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

Product Details

Characteristics:	Full-length NAD kinase (Bacillus subtilis).
Purity:	>98 % (SDS-PAGE)

Target Details

Target:	NADK
Alternative Name:	NAD Kinase (NADK Products)
Background:	<p>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. NAD kinase from Bacillus subtilis is not ATP-dependent but has a broader substrate specificity than human NAD kinase. It can economically produce NADP⁺ by using other nucleoside triphosphates as well as inorganic polyphosphate as a source of</p>

Target Details

	phosphorus. Catalytic activity: ATP + NAD ⁺ = ADP + NADP ⁺
Molecular Weight:	~30.0kDa
UniProt:	O31612

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	~2.6 U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1 μmol nicotinamide adenine dinucleotide phosphate (NADP) per min.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. In 50 mM TRIS-HCl, pH 7.0 containing 150 mM sodium chloride, 1 mM EDTA and 1 mM dithiothreitol.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, -80 °C
Storage Comment:	Short Term Storage: -20°C Long Term Storage: -80°C Stable for at least 6 months after receipt when stored at -80°C.
Expiry Date:	6 months