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## Datasheet for ABIN2745747

# **NADK Protein (His tag)**

#### Overview

Quantity:	50 μg
Target:	NADK
Origin:	Mycobacterium tuberculosis
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NADK protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

#### **Product Details**

Characteristics:	NAD kinase (Mycobacterium tuberculosis) is fused at the N-terminus to a His-tag.
Purity:	>98 % (SDS-PAGE)

#### **Target Details**

Target:	NADK
Alternative Name:	NAD Kinase (NADK Products)
Background:	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 Mycobacterium tuberculosis is not ATP-
	dependent but has a broader substrate specificity than human NAD kinase. It can economically

### **Target Details**

	produce NADP+ by using other nucleoside triphosphates as well as inorganic polyphosphate as a source of phosphorus. Was identified as a high-confidence drug target. Catalytic activity: ATP + NAD+ = ADP + NADP+
Molecular Weight:	~33.0kDa
UniProt:	P0A5S6

## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	~1.2 U/mg protein. (Substrate: NAD (+ ATP)) ~3.8 U/mg protein. (Substrate: NAD (+ poly(P))
	One unit is defined as the amount of enzyme that synthesizes 1µmol nicotinamide adenine
	dinucleotide phosphate (NADP) per min.
Restrictions:	For Research Use only

# Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. In 10 mM TRIS at pH 8.0, containing 1 mM MgCl2, 0.5 mM EDTA, 1 mM DTT and 1 mM PMSF.
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