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Datasheet for ABIN2745745 NADK Protein (AA 64-446, Catalytic Domain) (His tag)



Overview

Quantity:	50 µg
Target:	NADK
Protein Characteristics:	Catalytic Domain, AA 64-446
Origin:	Human
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	
Cross-Reactivity:	Human
Characteristics:	Human NAD kinase (aa 64-446) is fused at the N-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	Free of any nucleotide converting side-activities.
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+,

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Target Details	
	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.
Molecular Weight:	~42kDa (monomer)
UniProt:	095544
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	>2U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1µmol of NADP per min.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
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.
Concentration:	Lot specific
Buffer:	Ammonium sulphate suspension.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Working aliquots are stable for up to 3 months when stored at -20°C.