

Recombinant Human Nicotinamide Riboside Kinase 1 Isoform 1, His-tagged

Cat. No. NRK1-6793H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanNRK1 protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	NRK1 belongs to theuridine kinase family. NAD ⁺ is essential for life in all organisms, both as acoenzyme for oxidoreductases and as a source of ADPriboseyl groups used invarious reactions, including those that retard aging in experimental systems.Nicotinic acid and nicotinamide were defined as the vitamin precursors ofNAD ⁺ . This enzyme catalyzes the phosphorylation of nicotinamide riboside (NR)and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN)and nicotinic acid mononucleotide (NaMN). The enzyme also phosphorylates theantitumor drugs tiazofurin and 3-deazaguanosine
Form	Liquid. In 20 mMTris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl
Molecular Weight	25.6kDa (222aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	0.5mg/ml (determinedby Bradford assay)

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Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGSMKTFIIG ISGVTNSGKT TLAKNLQKHL
 PNCSVISQDD FFKPESEIET DKNGLFLQYDVLEALNMEKMM SAISCWMESA
 RHSVSTDQE SAEIPIILII EGFLLFNYKP LDTIWNRSYF
 LTIPYEECKRRRSTRVYQPP DSPGYFDGHV WPMYLYRQE MQDITWEVVY
 LDGTKSEEDL FLQVYEDLIQ ELAKQKCLQVTA

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [C9orf95 chromosome 9 openreading frame 95 \[Homo sapiens\]](#)

Official symbol C9orf95

Synonyms chromosome9 open reading frame 95; RibosylNicotinic acid kinase 1; FLJ20559; NRK 1; NRK1; RNK 1; bA235O14.2; OTTHUMP00000021494; Nicotinic acid riboside kinase1; nicotinamide riboside kinase 1; NmR-K 1; EC 2.7.1.22; RibosylNicotinamidekinase 1; EC 2.7.1.n4; RP11-235O14.2; OTTHUMP00000021493; OTTHUMP00000021495

Gene ID [54981](#)

mRNA Refseq [NM_017881](#)

Protein Refseq [NP_060351](#)

MIM [608704](#)

Uniprot ID [Q9NWW6](#)

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Chromosome Location	9q21.13
Pathway	Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem
Function	ATP binding; metal ion binding; nucleotide binding; ribosyl nicotinamide kinase activity; transferase activity

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