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Recombinant human NRK1/NMRK1 protein

Catalog Number: ATGP1570

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-199aa

UniProt No.

O9NWW6

NCBI Accession No.

NP 060351.1

Alternative Names

nicotinamide riboside kinase 1 isoform 1, bA235014.2, NRK1, RP11-235014.2

PRODUCT SPECIFICATION

Molecular Weight

25.6 kDa (222aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 200mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NRK1 belongs to the uridine kinase family. NAD+ is essential for life in all organisms, both as a coenzyme for oxidoreductases and as a source of ADPribosyl groups used in various reactions, including those that retard aging in experimental systems. Nicotinic acid and nicotinamide were defined as the vitamin precursors of NAD+. 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 the antitumor drugs tiazofurin and 3-deazaguanosine. Recombinant human NRK1 protein, fused



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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

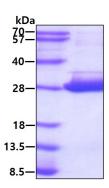
<MGSSHHHHHH SSGLVPRGSH MGS>MKTFIIG ISGVTNSGKT TLAKNLQKHL PNCSVISQDD FFKPESEIET DKNGFLQYDV LEALNMEKMM SAISCWMESA RHSVVSTDQE SAEEIPILII EGFLLFNYKP LDTIWNRSYF LTIPYEECKR RRSTRVYQPP DSPGYFDGHV WPMYLKYRQE MQDITWEVVY LDGTKSEEDL FLQVYEDLIQ ELAKQKCLQV TA

General References

Bieganowski P, et al.(2004) Cell. 14;117(4):495-502. Khan JA, et al. (2007) Structure. 15(8):1005-13.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

