

NRK1 recombinant protein

NRK1, 1-199aa, Human, His tag, E Coli

CATALOG # AAA48740	HOST E Coli	APPLICATIONS SDS-Page
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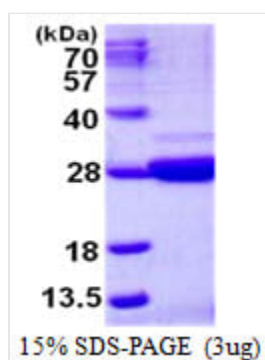
PRODUCT SYNONYMS

NRK1; 1-199aa; Human; His tag; E Coli; nicotinamide riboside kinase 1 isoform 1; bA235O14.2; RP11-235O14.2; NRK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMKTFIIG ISGVTNSGKT TLAKNLQKHL PNCVISQDD FFKPESEIET DKNGFLQYDV LEALNMEKMM SAISCWMESA RHSVVSTDQE SAEIIPILII EGFLLFNYKP LDTIWNRSYF LTIPYEECKR RRSTRVYQPP DSPGYFDGHV WPMYLYRQE MQDITWEVVY LDGKSEEDL FLQVYEDLIQ ELAKQKCLQV TA
Sequence Length	199
Applicable Applications for NRK1 recombinant protein	SDS-PAGE
Preparation and 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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for NRK1 recombinant protein	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 to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for NRK1 recombinant protein	Signal Transduction
References	Bieganowski P, et al. (2004) Cell. 14;117 (4):495-502.; Khan JA, et al. (2007) Structure. 15 (8):1005-13.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923530
NCBI GeneID	54981
NCBI Accession #	NP_060351
NCBI GenBank Nucleotide #	NM_017881.2
UniProt Accession #	Q9NWW6; Q5W124; Q8N430
Molecular Weight	25.6kDa (222aa), confirmed by MALDI-TOF
NCBI Official Full Name	nicotinamide riboside kinase 1 isoform 1
UniProt Protein Name	Nicotinamide riboside kinase 1
UniProt Gene Name	NMRK1
UniProt Synonym Gene Names	C9orf95; NRK1; RNK 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.