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C9ORF95 Human

Chromosome 9 Open Reading Frame 95 Human Recombinant
RCP0309

Product Overview

Name	C9ORF95 Human

Description

Chromosome 9 Open Reading Frame 95 Human Recombinant

Accession (Primary)	Q9NWW6

Synonyms

Nicotinamide riboside kinase 1, NRK 1, NmR-K 1, Nicotinic acid riboside kinase 1, Ribosylnicotinamide kinase 1, RNK 1, Ribosylnicotinic acid kinase 1, NMRK1, C9orf95, NRK1, bA235O14.2, RP11-235O14.2.

Introduction

Chromosome 9 Open Reading Frame 95 (C9ORF95/NRK1) is a member of the uridine kinase family. NAD+ is vital for life in all organisms, both as a coenzyme for oxidoreductases and as a source of ADPribosyl groups used in countless reactions, including those which delay aging in experimental systems. Nicotinic acid and nicotinamide are defined as the vitamin precursors of NAD+. C9ORF95 catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN). C9ORF95 also phosphorylates the antitumor drugs tiazofurin and 3-deazaguanosine.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

C9ORF95 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT and 200mM NaCl.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MKTFIIG ISGVTNSGKT TLAKNLQKHL PNCSVISQDD FFKPESEIET

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DKNGFLQYDV LEALNMEKMM SAISCWMESA RHSVVSTDQE SAEEIPILII EGFLLFNYKP LDTIWNRSYF LTIPYEECKR RRSTRVYQPP DSPGYFDGHV WPMYLKYRQE MQDITWEVVY LDGTKSEEDL FLQVYEDLIQ ELAKQKCLQV TA.

Precautions

C9ORF95 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9NWW6)