
Product Data Sheet

Product Name: C9ORF95 Human
 Cat. No.: GP22946
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMKTFIIG ISGVTNSGKT TLAKNLQKHL PNCSVISQDD FFKPESEIET DKNGLFLQYDV LEALNMEKMM SAISCWMESA RHSVSTDQE SAEIPIILII EGFLLFNYKP LDTIWNRSYF LTIPYEECKR RRSTRVYQPP DSPGYFDGHV WPMYLKYRQE MQDITWEVVY LDGTKSEEDL FLQVYEDLIQ ELAKQKCLQV TA.		
Formulation	C9ORF95 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT and 200mM NaCl.		

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

C9ORF95 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 222 amino acids (1-199 a.a) and having a molecular mass of 25.6kDa. C9ORF95 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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