

## C9ORF95 Human

**Description:** 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.

**Catalog #:** PRPS-1123

For research use only.

**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.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMKTFIIG ISGVTNSGKT  
TLAKNLQKHL PNCVISQDD FFKPESEIET DKNGLQYDV LEALNMEKMM SAISCWMESA  
RHSVSTDQE SAEIPIILII EGFLLFNYKP LDTIWNRSYF LTIPYEECKR RRSTRVYQPP  
DSPGYFDGHV WPMYLYRQE MQDITWEVVY LDGKSEEDL FLQVYEDLIQ ELAKQKCLQV  
TA.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Chromosome 9 Open Reading Frame 95 (C9ORF95/NRK1) is a member of the uridine kinase family. NAD<sup>+</sup> 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<sup>+</sup>. 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.

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