

**NRK1, 1-199aa, Human, His tag, E.coli**

**Cat.NO.: TP03200**

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3th Edition

**Synonyms:**Nicotinamide riboside kinase 1 isoform 1, bA235O14.2, NRK1, RP11-235O14.2.

**Description:**NRK1 belongs to the uridine kinase family. NAD<sup>+</sup> 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<sup>+</sup>. This enzyme catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN).

**Form:**Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl

**Molecular Weight:**25.6kDa (222aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMKTFIIGISGVTNSGKTTLAKNLQKHLPNCSVISQDDFFKPESEIETDKNGFLQ  
YDVLEALNMEKMMSAISCWMESARHSVVSTDQESAEIPIIIEGFLLFNYKPLDTIWNRSYFLTIPYEECKRRRSTR  
VYQPPDSPGYFDGHVWPMYLYRQEMQDITWEVVYLDGKSEEDLFLQVYEDLIQELAKQKCLQVTA

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.