

## nicotinate phosphoribosyltransferase

Cat. No. EXWM-5791

Lot. No. (See product label)

## Introduction

**Description** The enzyme, which is involved in pyridine nucleotide recycling, can form β-nicotinate D-ribonucleotide and

diphosphate from nicotinate and 5-phospho- $\alpha$ -D-ribose 1-diphosphate (PRPP) in the absence of ATP. However, when ATP is available the enzyme is phosphorylated resulting in a much lower Km for nicotinate. The phospho-enzyme is hydrolysed during the transferase reaction, regenerating the low affinity form. The presence of ATP shifts the products/substrates equilibrium from 0.67 to 1100.

**Synonyms** niacin ribonucleotidase; nicotinic acid mononucleotide glycohydrolase; nicotinic acid mononucleotide

pyrophosphorylase; nicotinic acid phosphoribosyltransferase; nicotinate-nucleotide:diphosphate phospho-

 $\alpha ext{-}D ext{-}ribosyltransferase$ 

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 6.3.4.21

*CAS No.* 9030-26-6

**Reaction** nicotinate + 5-phospho- $\alpha$ -D-ribose 1-diphosphate + ATP + H2O =  $\beta$ -nicotinate D-ribonucleotide +

diphosphate + ADP + phosphate

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce

according to your specifications.

## Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C $\sim$ -80 °C.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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