

## phosphoribosylformylglycinamide cyclo-ligase

Cat. No. EXWM-5773

Lot. No. (See product label)

### Introduction

#### Description

AIR synthetase is the fifth enzyme in the de novo synthesis of purine nucleotides. It catalyzes the reaction to form 5-aminoimidazole ribonucleotide (AIR) from formylglycinamide-ribonucleotide FGAM.

#### Synonyms

phosphoribosylaminoimidazole synthetase; AIR synthetase; 5'-aminoimidazole ribonucleotide synthetase; 2-(formamido)-1-N-(5-phosphoribosyl)acetamidine cyclo-ligase (ADP-forming)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 6.3.3.1

#### CAS No.

9023-53-4

#### Reaction

$\text{ATP} + 2\text{-(formamido)-N}^1\text{-(5-phospho-D-ribose)}\text{ylacetamidine} = \text{ADP} + \text{phosphate} + 5\text{-amino-1-(5-phospho-D-ribose)}\text{ylimidazole}$

#### 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~-80 °C.