

## phosphoribosylformylglycinamide synthase

Cat. No. EXWM-5806

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of ligases, specifically those forming carbon-nitrogen bonds carbon-nitrogen ligases with glutamine as amido-N-donor. This enzyme participates in purine metabolism.

#### Synonyms

phosphoribosylformylglycinamide synthetase; formylglycinamide ribonucleotide amidotransferase; phosphoribosylformylglycineamide synthetase; FGAM synthetase; FGAR amidotransferase; 5'-phosphoribosylformylglycinamide:L-glutamine amido-ligase (ADP-forming); 2-N-formyl-1-N-(5-phospho-D-ribose)glycinamide:L-glutamine amido-ligase (ADP-forming)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 6.3.5.3

#### CAS No.

9032-84-2

#### Reaction

ATP + N<sup>2</sup>-formyl-N<sup>1</sup>-(5-phospho-D-ribose)glycinamide + L-glutamine + H<sub>2</sub>O = ADP + phosphate + 2-(formamido)-N<sup>1</sup>-(5-phospho-D-ribose)acetamidine + L-glutamate

#### 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.