

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-ribosyl)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 $\text{ATP} + \text{N}^2\text{-formyl-N}^1\text{-(5-phospho-D-ribosyl)glycinamide} + \text{L-glutamine} + \text{H}_2\text{O} = \text{ADP} + \text{phosphate} + 2\text{-(formamido)-N}^1\text{-(5-phospho-D-ribosyl)acetamidine} + \text{L-glutamate}$

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.