Creative Enzymes®

phosphoribosylformylglycinamidine 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	phosphoribosylformylglycinamidine synthetase; formylglycinamide ribonucloetide amidotransferase; phosphoribosylformylglycineamidine 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	ATP + N2-formyl-N1-(5-phospho-D-ribosyl)glycinamide + L-glutamine + H2O = ADP + phosphate + 2-(formamido)-N1-(5-phospho-D-ribosyl)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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.