Creative Enzymes®

phosphoribosylglycinamide formyltransferase

Cat. No. EXWM-2004

Lot. No. (See product label)

Introduction

Description	This THF dependent enzyme catalyzes a nucleophilic acyl substitution of the formyl group from 10-formyltetrahydrofolate (fTHF) to N1-(5-phospho-D-ribosyl)glycinamide (GAR) to form N2-formyl-N1-(5-phospho-D-ribosyl)glycinamide (fGAR) as shown above. This reaction plays an important role in the formation of purine through the de novo purine biosynthesis pathway. This pathway creates inosine monophosphate (IMP), a precursor to adenosine monophosphate (AMP) and guanosine monophosphate (GMP).
Synonyms	2-amino-N-ribosylacetamide 5'-phosphate transformylase; GAR formyltransferase; GAR transformylase; glycinamide ribonucleotide transformylase; GAR TFase; 5,10-methenyltetrahydrofolate:2-amino-N-ribosylacetamide ribonucleotide transformylase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.1.2.2
CAS No.	9032-02-4
Reaction	10-formyltetrahydrofolate + N1-(5-phospho-D-ribosyl)glycinamide = tetrahydrofolate + N2-formyl-N1-(5-phospho-D-ribosyl)glycinamide
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 ℃.