

phosphoribosylaminoimidazole carboxylase

Cat. No. EXWM-4766

Lot. No. (See product label)

Introduction

Description

While this is the reaction that occurs in vertebrates during purine biosynthesis, two enzymes are required to carry out the same reaction in *Escherichia coli*, namely EC 6.3.4.18, 5-(carboxyamino)imidazole ribonucleotide synthase and EC 5.4.99.18, 5-(carboxyamino)imidazole ribonucleotide mutase. 5-Carboxyamino-1-(5-phospho-D-ribosyl)imidazole is not a substrate.

Synonyms

5-phosphoribosyl-5-aminoimidazole carboxylase; 5-amino-1-ribosylimidazole 5-phosphate carboxylase; AIR carboxylase; 1-(5-phosphoribosyl)-5-amino-4-imidazolecarboxylate carboxy-lyase; ADE2; class II PurE; 5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxylate carboxy-lyase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.1.1.21

CAS No.

9032-04-6

Reaction

5-amino-1-(5-phospho-D-ribosyl)imidazole-4-carboxylate = 5-amino-1-(5-phospho-D-ribosyl)imidazole + CO₂

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.