amidophosphoribosyltransferase

Cat. No. EXWM-2641

Lot. No. (See product label)

Introduction

Description	Amidophosphoribosyltransferase (ATase), also known as glutamine phosphoribosylpyrophosphate amidotransferase (GPAT), is an enzyme responsible for catalyzing the conversion of 5-phosphoribosyl-1-pyrophosphate (PRPP) into 5-phosphoribosyl-1-amine (PRA), using the ammonia group from a glutamine side-chain. This is the committing step in de novo purine synthesis. In humans it is encoded by the PPAT (phosphoribosyl pyrophosphate amidotransferase) gene. ATase is a member of the purine/pyrimidine phosphoribosyltransferase family.
Synonyms	phosphoribosyldiphosphate 5-amidotransferase; glutamine phosphoribosyldiphosphate amidotransferase; α-5-phosphoribosyl-1-pyrophosphate amidotransferase; 5'-phosphoribosylpyrophosphate amidotransferase; 5-phosphoribosyl-1-pyrophosphate amidotransferase; 5-phosphororibosyl-1-pyrophosphate amidotransferase; glutamine 5-phosphoribosylpyrophosphate amidotransferase; glutamine ribosylpyrophosphate 5-phosphate amidotransferase; phosphoribose pyrophosphate amidotransferase; phosphoribosyl pyrophosphate amidotransferase; phosphoribosylpyrophosphate glutamyl amidotransferase; 5-phosphoribosylamine:diphosphate phospho-α-D-ribosyltransferase (glutamate-amidating)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.2.14
CAS No.	9031-82-7
Reaction	5-phospho-β-D-ribosylamine + diphosphate + L-glutamate = L-glutamine + 5-phospho-α-D-ribose 1-diphosphate + H2O
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 ℃.