

## 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; $\alpha$ -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-phosphoribosyl pyrophosphate amidotransferase; phosphoribosylpyrophosphate 5-phosphoribosyl pyrophosphate amidotransferase; phosphoribosylpyrophosphate glutamyl amidotransferase; 5- phosphoribosylamine:diphosphate phospho- $\alpha$ -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 °C for short term. For long term storage, store it at -20 °C~-80 °C.