Creative Enzymes®

IMP cyclohydrolase

Cat. No. EXWM-4537

Lot. No. (See product label)

Introduction

Description	This enzyme belongs to the family of hydrolases, those acting on carbon-nitrogen bonds other than peptide bonds, specifically in cyclic amidines. The systematic name of this enzyme class is IMP 1,2-hydrolase (decyclizing). Other names in common use include inosinicase, and inosinate cyclohydrolase. This enzyme catalyses the cyclisation of 5-formylamidoimidazole-4-carboxamide ribonucleotide to IMP, a reaction which is important in de novo purine biosynthesis in archaeal species.
Synonyms	inosinicase; inosinate cyclohydrolase; IMP 1,2-hydrolase (decyclizing)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.5.4.10
CAS No.	9013-81-4
Reaction	IMP + H2O = 5-formamido-1-(5-phospho-D-ribosyl)imidazole-4-carboxamide
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 ℃.