Creative Enzymes®

[glutamine synthetase] adenylyltransferase

Cat. No. EXWM-3254

Lot. No. (See product label)

Introduction

Description	This bacterial enzyme adenylates a tyrosine residue of EC 6.3.1.2, glutamine synthetase. The enzyme is bifunctional, and also catalyses a reaction that removes the adenyl group from the modified tyrosine residue (cf. EC 2.7.7.89, [glutamine synthetase]-adenylyl-L-tyrosine phosphorylase). The two activities are present on separate domains.
Synonyms	glutamine-synthetase adenylyltransferase; ATP:glutamine synthetase adenylyltransferase; adenosine triphosphate:glutamine synthetase adenylyltransferase; ATP:[L-glutamate:ammonia ligase (ADP-forming)] adenylyltransferase; ATP:[L-glutamate:ammonia ligase (ADP-forming)]-L-tyrosine adenylyltransferase; [glutamate-ammonia-ligase] adenylyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.7.42
CAS No.	9077-66-1
Reaction	ATP + [glutamine synthetase]-L-tyrosine = diphosphate + [glutamine synthetase]-O4-(5'-adenylyl)-L-tyrosine
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 ℃.