

[glutamine synthetase] adenylyltransferase

Cat. No. EXWM-3254

Lot. No. (See product label)

Introduction

Description

This bacterial enzyme adenylylates a tyrosine residue of EC 6.3.1.2, glutamine synthetase. The enzyme is bifunctional, and also catalyses a reaction that removes the adenylyl 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.