Creative Enzymes®

adenosylcobyric acid synthase (glutamine-hydrolysing)

Cat. No. EXWM-5803

Lot. No. (See product label)

Introduction

Description	Requires Mg2+. NH3 can act instead of glutamine. This enzyme catalyses the four-step amidation sequence from cobyrinic acid a,c-diamide to cobyric acid via the formation of cobyrinic acid triamide, tetraamide and pentaamide intermediates.
Synonyms	CobQ; cobyric acid synthase; 5'-deoxy-5'-adenosylcobyrinic-acid-a,c-diamide:L-glutamine amido-ligase; Ado-cobyric acid synthase [glutamine hydrolyzing]

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 6.3.5.10
CAS No.	137672-90-3
Reaction	4 ATP + adenosylcobyrinic acid a,c-diamide + 4 L-glutamine + 4 H2O = 4 ADP + 4 phosphate + adenosylcobyric acid + 4 L-glutamate
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 ℃.