

## adenosylcobyrinic acid synthase (glutamine-hydrolysing)

Cat. No. EXWM-5803

Lot. No. (See product label)

### Introduction

**Description** Requires Mg<sup>2+</sup>. NH<sub>3</sub> can act instead of glutamine. This enzyme catalyses the four-step amidation sequence from cobyrinic acid a,c-diamide to cobyrinic acid via the formation of cobyrinic acid triamide, tetraamide and pentaamide intermediates.

**Synonyms** CobQ; cobyrinic acid synthase; 5'-deoxy-5'-adenosylcobyrinic-acid-a,c-diamide:L-glutamine amido-ligase; Ado-cobyrinic 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 H<sub>2</sub>O = 4 ADP + 4 phosphate + adenosylcobyrinic 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.