

## precorrin-3B synthase

Cat. No. EXWM-0891

Lot. No. (See product label)

### Introduction

#### Description

An iron-sulfur protein. An oxygen atom from dioxygen is incorporated into the macrocycle at C-20. In the aerobic cobalamin biosynthesis pathway, four enzymes are involved in the conversion of precorrin-3A to precorrin-6A. The first of the four steps is carried out by EC 1.14.13.83, precorrin-3B synthase (CobG), yielding precorrin-3B as the product. This is followed by three methylation reactions, which introduce a methyl group at C-17 (CobJ; EC 2.1.1.131), C-11 (CobM; EC 2.1.1.133) and C-1 (CobF; EC 2.1.1.152) of the macrocycle, giving rise to precorrin-4, precorrin-5 and precorrin-6A, respectively.

#### Synonyms

precorrin-3X synthase; CobG

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.83

#### CAS No.

152787-63-8

#### Reaction

precorrin-3A + NADH + H<sup>+</sup> + O<sub>2</sub> = precorrin-3B + NAD<sup>+</sup> + H<sub>2</sub>O

#### 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.