Creative Enzymes®

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 biosythesis 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+ + O2 = precorrin-3B + NAD+ + H2O

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 ℃.