

chlorophyllide a hydrolase

Cat. No. EXWM-3436

Lot. No. (See product label)

Introduction

Description

This enzyme, found in green sulfur bacteria (Chlorobiaceae) and green filamentous bacteria (Chloroflexaceae), catalyses the first committed step in the biosynthesis of bacteriochlorophylls c, d and e, the removal of the C-132-methylcarboxyl group from chlorophyllide a. The reaction is very similar to the conversion of pheophorbide a to pyropheophorbide a during chlorophyll a degradation, which is catalysed by EC 3.1.1.82, pheophorbidease.

Synonyms

bciC (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.1.1.100

Reaction

chlorophyllide a + H₂O = 8-ethyl-12-methyl-3-vinyl-bacteriochlorophyllide d + methanol + CO₂

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.