Creative Enzymes®

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, pheophorbidase.
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.