

## 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 + H<sub>2</sub>O = 8-ethyl-12-methyl-3-vinyl-bacteriochlorophyllide d + methanol + CO<sub>2</sub>

**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.