

## Recombinant chlorophyllase

Cat. No. EXWM-3441

Lot. No. (See product label)

### Introduction

#### Description

Chlorophyllase has been found in higher plants, diatoms, and in the green algae *Chlorella*. This enzyme forms part of the chlorophyll degradation pathway and is thought to take part in de-greening processes such as fruit ripening, leaf senescence and flowering, as well as in the turnover and homeostasis of chlorophyll. This enzyme acts preferentially on chlorophyll a but will also accept chlorophyll b and pheophytins as substrates. Ethylene and methyl jasmonate, which are known to accelerate senescence in many species, can enhance the activity of the hormone-inducible form of this enzyme.

### Product Information

<b>Source</b>	E. coli
<b>Form</b>	Liquid
<b>EC Number</b>	EC 3.1.1.14
<b>CAS No.</b>	9025-96-1
<b>Molecular Weight</b>	35.7 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Activity</b>	6.38 mU/mg
<b>Buffer</b>	PBS, pH 7.4
<b>Unit Definition</b>	One unit was defined as the amount of enzyme necessary to catalyze the production of 1 $\mu$ mole of chlorophyllide per minute.
<b>Reaction</b>	chlorophyll + H <sub>2</sub> O = phytol + chlorophyllide
<b>Notes</b>	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

<b>Storage</b>	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
----------------	---