

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

Source	E. coli
Form	Liquid
EC Number	EC 3.1.1.14
CAS No.	9025-96-1
Molecular Weight	35.7 kDa
Purity	>90% by SDS-PAGE
Activity	6.38 mU/mg
Buffer	PBS, pH 7.4
Unit Definition	One unit was defined as the amount of enzyme necessary to catalyze the production of 1 μ mole of chlorophyllide per minute.
Reaction	chlorophyll + H ₂ O = phytol + chlorophyllide
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 under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.