

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.