

Lytic chitin monooxygenase from *Lactococcus lactis*, Recombinant

Cat. No. NATE-1567

Lot. No. (See product label)

Introduction

Description

Lytic chitin monooxygenase is a copper-dependent lytic polysaccharide monooxygenase (LPMO). Copper-dependent lytic polysaccharide monooxygenases (LPMOs) are key players in the enzymatic conversion of biomass. LPMOs catalyze oxidative cleavage of glycosidic bonds in a process involving molecular oxygen and an electron donor, such as cellobiose dehydrogenase (CDH).

Synonyms

copper-dependent lytic polysaccharide monooxygenase; LPMO; lytic polysaccharide monooxygenase

Product Information

Species

Lactococcus lactis

Source

E. coli

Form

35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl₂, 0.02% sodium azide and 25% (v/v) glycerol

EC Number

EC 1.-.-.-

Molecular Weight

21.8 kDa

Purity

>90% as judged by SDS-PAGE

Concentration

0.25 mg/mL

Optimum pH

3.8

Optimum temperature

37 °C

Specificity

α- and β-chitin

Storage and Shipping Information

Storage

This enzyme is shipped at room temperature but should be stored at -20 °C.