

Lytic chitin monooxygenase from *Bacillus licheniformis*, Recombinant

Cat. No. NATE-1566

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

Bacillus licheniformis

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

21.2 kDa

Purity

>90% as judged by SDS-PAGE

Concentration

1 mg/mL

Specificity

β-chitin and α-chitin and showed synergism in hydrolysis of pure chitin substrates when combined with chitinases

Storage and Shipping Information

Storage

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