Creative Enzymes®

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.