Creative Enzymes®

Lytic cellulose monooxygenase from Thermobifida fusca, Recombinant

Cat. No. NATE-1568

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	Thermobifida fusca
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	23.4 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	8
Optimum temperature	50 °C
Specificity	Cellulosic substrates

Storage and Shipping Information

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