

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.