Creative Enzymes®

Cellobiohydrolase 48A from Clostridium thermocellum, Recombinant

Cat. No. NATE-1331

Lot. No. (See product label)

Introduction

Description	Cellulose 1,4-beta-cellobiosidase (non-reducing end) (EC 3.2.1.91, exo-cellobiohydrolase, beta-1,4-glucan cellobiohydrolase, beta-1,4-glucan cellobiosylhydrolase, 1,4-beta-glucan cellobiosidase, exoglucanase, avicelase, CBH 1, C1 cellulase, cellobiohydrolase I, cellobiohydrolase, exo-beta-1,4-glucan cellobiohydrolase, 1,4-beta-D-glucan cellobiohydrolase, cellobiosidase) is an enzyme with systematic name 4-beta-D-glucan cellobiohydrolase (non-reducing end). This enzyme catalyses the following chemical reaction: Hydrolysis of (1->4)-beta-D-glucosidic linkages in cellulose and cellotetraose, releasing [cellobiose] from the non-reducing ends of the chains.
Synonyms	Cellulose 1,4-beta-cellobiosidase (non-reducing end); EC 3.2.1.91; exo-cellobiohydrolase; beta-1,4-glucan cellobiohydrolase; beta-1,4-glucan cellobiosylhydrolase; 1,4-beta-glucan cellobiosidase; exoglucanase; avicelase; CBH 1; C1 cellulase; cellobiohydrolase I; cellobiohydrolase; exo-beta-1,4-glucan cellobiohydrolase; 1,4-beta-D-glucan cellobiohydrolase; cellobiosidase

Product Information

Species	Clostridium thermocellum
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 3.2.1.91
CAS No.	37329-65-0
Molecular Weight	81.6 kDa
Purity	>90% by SDS-PAGE
Concentration	0.5 mg/mL
Optimum pH	5.5 – 6.5
Optimum temperature	60 °C
Specificity	Phosphoric acid-swollen cellulose, Avicel and others forms of insoluble cellulose

Storage and Shipping Information

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