Creative Enzymes®

Galactan 1,3-β-galactosidase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1206

Lot. No. (See product label)

Introduction

Description	Galactan 1,3-beta-galactosidase (EC 3.2.1.145, galactan (1->3)-beta-D-galactosidase) is an enzyme with system name galactan 3-beta-D-galactosidase. This enzyme catalyses the following chemical reaction: Hydrolysis of terminal, non-reducing beta-D-galactose residues in (1->3)-beta-D-galactopyranans. This enzyme removes not only free galactose, but also 6-glycosylated residues.
Synonyms	Exo-β-1,3-galactosidase; galactan 3-β-D-galactosidase; exo-beta-1,3-galactosidase; galactan 1,3-beta-galactosidase; galactan 3-betaD-galactosidase

Product Information

Source	Clostridium thermocellum ATCC 27405
Form	Lyophilised powder
EC Number	EC 3.2.1.145
CAS No.	161515-48-6
Molecular Weight	37692 Da
Purity	> 95 % as judged by SDS-PAGE
Activity	20 U/mg
Optimum pH	6 (stable from 3 - 10)
Optimum temperature	50°C (stable up to 55°C)
Unit Definition	One unit is defined as the amount of enzyme required to release 1μmol of galactose-reducing-sugar equivalents per minute from β-1,3- galactan in phosphate buffer, pH 6.0, at 60°C.

Usage and Packaging

Preparation Instructions	Dissolve to 0.8 mg/mL in 50 mM phosphate buffer, pH 6.0, containing 20 mM NaCl and aliquot for storage at -20°C. The enzyme should be stable for 6 months when stored in this manner.

Storage and Shipping Information

Storage	Store at -20°C (shipped at room temperature)