

β-Xylosidase from *Opitutus terrae*, Recombinant

Cat. No. NATE-1192

Lot. No. (See product label)

Introduction

Description

Releases reducing sugars from birchwood xylan (X0502), also catalyzes the hydrolysis of 4-methylumbelliferyl-β-D-cellobioside and 4-methylumbelliferyl-β-D-glucopyranoside. This enzyme does not possess endo-xylanase, arabinoxylanase or β-glucanase activities. β-Xylosidase undergoes post-translation glycosylation which has been shown to be critical for its proper activity and stability. Deglycosylation altered the the optimum temperature and pH for activity and decreased its thermostability.

Synonyms

β-Xylosidase; β-Xylosidase, thermostable; 9025-53-0

Product Information

Source

Opitutus terrae PB90-1

Form

Supplied in 3.2 M ammonium sulphate

EC Number

EC 3.2.1.37

CAS No.

9025-53-0

Molecular Weight

81101.4 Da

Purity

> 95 % as judged by SDS-PAGE

Activity

31.35 U/mg

Concentration

171.46 U/ml

Optimum pH

6.5

Optimum temperature

> 35°C

Unit Definition

One unit is defined as the amount of enzyme required to release 1μmol of oNP per minute from oNP-β-D-xylopyranoside (5 mM) in 50 mM sodium phosphate buffer, pH 6.5, at 35°C, and using an extinction coefficient of 18000 M⁻¹cm⁻¹.

Storage and Shipping Information

Storage

Store at 4°C (shipped at room temperature)