

β-Galactosidase 42A from Thermotoga maritima, Recombinant

Cat. No. NATE-1395

Lot. No. (See product label)

Introduction

Description

β-galactosidase is a hydrolase enzyme that catalyzes the hydrolysis of β-galactosides into monosaccharides. Substrates of different β-galactosidases include ganglioside GM1, lactosylceramides, lactose, and various glycoproteins.

Synonyms

β-galactosidase; beta-gal; β-gal; EC 3.2.1.23; lactase; β-lactosidase; maxilact; hydrolact; β-D-lactosidase; S 2107; lactozym; trilactase; β-D-galactanase; oryzatym; sumiklat; β-D-galactoside galactohydrolase

Product Information

Species

Thermotoga maritima

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 3.2.1.23

CAS No.

9031-11-2

Molecular Weight

81.2 kDa

Purity

>90% by SDS-PAGE

Concentration

0.25 mg/mL

Optimum pH

5.5

Optimum temperature

80 °C

Specificity

Broad substrate specificity with a preference for p-nitrophenyl-b-galactopyranoside (pNPGal)

Storage and Shipping Information

Storage

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