Creative Enzymes®

Phospho-β-Galactosidase 1A from Lactococcus lactis, Recombinant

Cat. No. NATE-1410

Lot. No. (See product label)

Introduction

Description In enzymology, a 6-phospho-beta-galactosidase (EC 3.2.1.85) is an enzyme that catalyzes the chemical reaction: a 6-phospho-beta-D-galactoside + H2O → 6-phospho-D-galactose + an alcohol. Thus, the two substrates of this enzyme are 6-phospho-beta-D-galactoside and H2O, whereas its two products are 6-phospho-D-galactose and alcohol. This enzyme belongs to the family of hydrolases, specifically those glycosidases that hydrolyse O- and S-glycosyl compounds. This enzyme participates in galactose metabolism.

Synonyms 6-phospho-beta-D-galactoside 6-phosphogalactohydrolase; phospho-beta-galactosidase; beta-D-phosphogalactoside galactohydrolase; phospho-beta-D-galactosidase; 6-phospho-beta-D-galactosidase; 6-phospho-beta-galactosidase; EC 3.2.1.85; Phospho-β-Galactosidase

Product Information

Species Lactococcus lactis

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 3.2.1.85

CAS No. 37237-42-6

Molecular Weight 56.1 kDa

Purity >90% by SDS-PAGE

Concentration 1 mg/mL

Optimum pH 5.5-6.5

Optimum temperature 37 °C

Specificity Chromogenic substrates o-nitrophenyl P-D-galactopyranoside (ONPG) and o-nitrophenyl P-mgalactopyranoside 6-phosphateONPG-6P (ONPG-6P7)

Storage and Shipping Information

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