

Phospho-β-Glucosidase 1A from Streptococcus mutans, Recombinant

Cat. No. NATE-1442

Lot. No. (See product label)

Introduction

Description

In enzymology, a 6-phospho-beta-glucosidase (EC 3.2.1.86) is an enzyme that catalyzes the chemical reaction: 6-phospho-beta-D-glucosyl-(1,4)-D-glucose + H₂O → D-glucose + D-glucose 6-phosphate. Thus, the two substrates of this enzyme are 6-phospho-beta-D-glucosyl-(1,4)-D-glucose and H₂O, whereas its two products are D-glucose and D-glucose 6-phosphate. This enzyme belongs to the family of hydrolases, specifically those glycosidases that hydrolyse O- and S-glycosyl compounds.

Synonyms

6-phospho-beta-D-glucosyl-(1,4)-D-glucose glucohydrolase; phospho-beta-glucosidase A; phospho-beta-glucosidase; phosphocellobiase; 6-phospho-beta-glucosidase; EC 3.2.1.86; Phospho-β-Glucosidase

Product Information

Species

Streptococcus mutans

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 3.2.1.86

CAS No.

37205-51-9

Molecular Weight

56.4 kDa

Purity

>90% by SDS-PAGE

Concentration

1 mg/mL

Optimum pH

8

Optimum temperature

37 °C

Specificity

Aryl-phospho-β-glucosides

Storage and Shipping Information

Storage

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