Creative Enzymes®

Phospho-β-Glucosidase 4A from Thermotoga maritima, Recombinant

Cat. No. NATE-1445

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	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 3.2.1.86
CAS No.	37205-51-9
Molecular Weight	49.7 kDa
Purity	>90% by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	6.5-10.0
Optimum temperature	37 °C
Specificity	Aryl-phospho-β-glucosides, such as cellobiose 6-phosphate

Storage and Shipping Information

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