

## 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 + H<sub>2</sub>O → D-glucose + D-glucose 6-phosphate. Thus, the two substrates of this enzyme are 6-phospho-beta-D-glucosyl-(1,4)-D-glucose and H<sub>2</sub>O, 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

|                            |  |
|----------------------------|--|
| <b>Species</b>             | <i>Thermotoga maritima</i>   |
| <b>Source</b>              | <i>E. coli</i>   |
| <b>Form</b>                | 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl <sub>2</sub> , 0.02% sodium azide and 25% (v/v) glycerol |
| <b>EC Number</b>           | EC 3.2.1.86  |
| <b>CAS No.</b>             | 37205-51-9   |
| <b>Molecular Weight</b>    | 49.7 kDa   |
| <b>Purity</b>              | >90% by SDS-PAGE   |
| <b>Concentration</b>       | 1 mg/mL  |
| <b>Optimum pH</b>          | 6.5-10.0   |
| <b>Optimum temperature</b> | 37 °C  |
| <b>Specificity</b>         | 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.