

## Trehalose-phosphatase from *Thermus thermophilus*, Recombinant

Cat. No. NATE-1233

Lot. No. (See product label)

### Introduction

**Description** In enzymology, a trehalose-phosphatase (EC 3.1.3.12) is an enzyme that catalyzes the chemical reaction:  $\alpha,\alpha\text{-trehalose 6-phosphate} + \text{H}_2\text{O} \rightleftharpoons \alpha,\alpha\text{-trehalose} + \text{phosphate}$ . Thus, the two substrates of this enzyme are  $\alpha,\alpha'$ -trehalose 6-phosphate and  $\text{H}_2\text{O}$ , whereas its two products are  $\alpha,\alpha$ -trehalose and phosphate. This enzyme belongs to the family of hydrolases, specifically those acting on phosphoric monoester bonds.

**Synonyms** Trehalose 6-phosphatase; trehalose 6-phosphate phosphatase; trehalose-6-phosphate phosphohydrolase; TPP; T6PP

### Product Information

**Source** *Thermus thermophilus* HB8

**Form** Supplied in 3.2 M ammonium sulphate

**EC Number** EC 3.1.3.12

**CAS No.** 9025-72-3

**Molecular Weight** 27788.9 Da

**Purity** >95 % as judged by SDS-PAGE

### Storage and Shipping Information

**Storage** Store at 4°C (shipped at room temperature)