

## Amylase 57C from Thermotoga maritima, Recombinant

Cat. No. NATE-1303

Lot. No. (See product label)

### Introduction

#### Description

$\alpha$ -Amylase is a protein enzyme EC 3.2.1.1 that hydrolyses alpha bonds of large, alpha-linked polysaccharides, such as starch and glycogen, yielding glucose and maltose. It is the major form of amylase found in Humans and other mammals. It is also present in seeds containing starch as a food reserve, and is secreted by many fungi.

#### Synonyms

glycogenase;  $\alpha$ amylase,  $\alpha$ -amylase; 1,4- $\alpha$ -D-glucan glucanohydrolase; EC 3.2.1.1; 9001-19-8; endoamylase; Taka-amylase A

### 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 CaCl<sub>2</sub>, 0.02% sodium azide and 25% (v/v) glycerol

#### EC Number

EC 3.2.1.1

#### CAS No.

9000-90-2

#### Molecular Weight

48.0 kDa

#### Purity

>90% by SDS-PAGE

#### Concentration

1 mg/mL

#### Optimum pH

8.5

#### Optimum temperature

90 °C

#### Specificity

Starch

### Storage and Shipping Information

#### Storage

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