

Native Human α-Amylase

Cat. No. NATE-0743

Lot. No. (See product label)

Introduction

Description α-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.

Applications α -Amylase is used to hydrolyze α bonds of α -linked polysaccharides, such as starch

and glycogen. $\alpha\text{-Amylase}$ has been used in various plant studies, such as

metabolism studies in Arabidopsis. α -Amylase from human saliva has been used to study the development of nutraceuticals, which may aid the treatment of diabetes

and obesity.

Synonyms glycogenase; α -amylase, α -amylase; 1,4- α -D-glucan glucanohydrolase; EC 3.2.1.1;

9001-19-8; endoamylase; Taka-amylase A

Product Information

Species Human

Source Human saliva

Form Lyophilized powder containing (NH4)2SO4 and sodium Citrate

EC Number EC 3.2.1.1

CAS No. 9001-19-8

Activity 1,000-3,000 units/mg protein; 300-1,500 units/mg protein

Pathway Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate

digestion and absorption, conserved biosystem; Digestion of dietary carbohydrate, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-

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specific biosystem; Salivary secretion, organism-specific biosystem

Unit Definition One unit will liberate 1.0 mg of maltose from starch in 3 min at pH 6.9 at 20°C.

Storage and Shipping Information

Storage −20°C