Creative Enzymes®

Native Canavalia ensiformis (Jack bean) α-Mannosidase

Cat. No. NATE-0754

Lot. No. (See product label)

Introduction

Description α-Mannosidase is an acid hydrolase which is located in plant vacuoles and is thought to be involved with the turnover of N-linked glycoproteins. α-Mannosidase has been shown to inhibit the proliferation of B-lymphocytes. α-Mannosidase from Canavalia ensiformis is a tretamer composed of two subunits that each contain two components at 44 and 66 kDa.

Applications Liberates mannose from a variety of synthetic and natural α-mannosides. α-Mannosidase can be used to liberate mannose from a variety of synthetic and natural α-mannosides. It has also been used in a study to investigate the causes of neurodegeneration in mucolipidosis II ′knock-in′ mice.

Synonyms α-mannosidase; α-D-mannosidase; p-nitrophenyl-α-mannosidase; α-D-mannopyranosidase; 1,2-α-mannosidase; 1,2-α-D-mannosidase; exo-α-mannosidase; EC 3.2.1.24; 9025-42-7; Mannosidase

Product Information

Source Canavalia ensiformis (Jack bean)

Form ammonium sulfate suspension. Suspension in 3.0 M (NH4)2SO4 and 0.1 mM zinc acetate, pH 7.5

EC Number EC 3.2.1.24

CAS No. 9025-42-7

Activity > 15 units/mg protein (biuret)

Unit Definition One unit will hydrolyze 1.0 µmole of p-nitrophenyl α-D-mannoside to p-nitrophenol and D-mannose per min at pH 4.5 at 25°C.

Storage and Shipping Information

Storage 2-8°C