

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; α

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 μ mole 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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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