Active Native Jack Bean α-(1-2,3,6) mannosidase

Cat. No. α-(1-2,3,6) mannosidase-001J **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native α-(1-2,3,6) mannosidase from Jack Bean.
Species	Jack Bean
Description	α Mannosidase from Jack Bean cleaves α(1-2,3,6)-linked mannose.
Form	Sterile-filtered solution
EC	3.2.1.24
Specificity	All α(1-2,3,6)-linked mannose
Contents	α(1-2,3,6) Mannosidase in 150 mM sodium phosphate, 0.1 mM ZnCl2 pH 7.5. (pH 7.5) 200 µL 5× Reaction Buffer 5.0 (250 mM sodium phosphate, pH 5.0)
Bio-activity	Specific Activity: > 3 U/mg Activity: > 10 U/mL
Molecular Mass	Two polypeptides of 64 and 44 kDa
Suggested usage	1. Add up to 1 nmol of oligosaccharide. 2. Add deionized water to 15 µL. 3. Add 4 µL 5× Reaction Buffer 5.0. 4. Add 1 µL of enzyme 5. Incubate ten minutes at 37 centigrade.
Unit Definition	One unit of α Mannosidase is defined as the amount of enzyme required to hydrolyze

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	1 μmole of p-nitrophenyl-α-p-mannoside to p-nitrophenol in 1 minute at pH 5.0 and 37 centigrade.
pH optimum	5
Purity	α-Mannosidase is tested for contaminating protease as follows: 10 μg of denatured BSA is incubated at 37 centigrade for 24 hours with 2 μL of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation. Enzymes purified from native sources are tested for contaminating exoglycosidases. The absence of exoglycosidase contaminants is confirmed by extended incubations with the corresponding pNP-glycosides.
Applications	This enzyme is often used in conjunction with Core α(1-6) Mannosidase if a noncleavable core α(1-6) mannose is present on the substrate.
Stability	Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.
Storage	Store enzyme at 4 centigrade. Do not freeze.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 20 mM Tris pH 7.5, 50 mM NaCl, 0.1 mM zinc chloride.

GENE INFORMATION

Synonyms	α-D-mannosidase; p-nitrophenyl-α-mannosidase; α-D-mannopyranosidase; α mannosidase; exo-α-mannosidase; Alpha-(1-2,3,6)-Mannosidase; Alpha-D-Mannoside Mannohydrolase

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