

Active Recombinant *Xanthomonas manihotis* α -(1,6) core mannosidase

Cat. No. α -(1,6) core mannosidase-003X **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Xanthomonas manihotis</i> α -(1,6) core mannosidase expressed in E. Coli
Species	<i>Xanthomonas manihotis</i>
Source	E. coli
Description	α (1-6) Core Mannosidase cleaves unbranched non-reducing terminal mannose, α (1-6) linked to the β -linked core mannose of the conserved mannosylchitobiose core of N-linked oligosaccharides. The presence of fucose linked to the core N-acetylglucosamine does not affect cleavage. The enzyme may inhibit other mannosidases, such as α (1-2,3,6) mannosidase, if a noncleavable α (1-6) mannose is present on the substrate. It should therefore always be added after digestion by other mannosidases.
Form	Sterile-filtered solution
EC	3.2.1.24
Specificity	Cleaves unbranched non-reducing terminal mannose, α (1-6) linked to the beta-linked core mannose of the conserved mannosylchitobiose core of N-linked oligosaccharides. The presence of fucose linked to the core N-acetylglucosamine has no effect on cleavage. The enzyme may inhibit other mannosidases if a noncleavable α (1-6) mannose is present on the substrate. It should therefore always be added

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	subsequent to digestion by other mannosidases.
Contents	Core Alpha Mannosidase in 50 mM sodium phosphate, 0.1 mM ZnCl (pH 7.5). 200 µL 5× Reaction Buffer 5.0 (250 mM sodium phosphate, pH 5.0).
Bio-activity	Specific Activity: > 1.5 U/mg Activity: 1 U/mL
Molecular Mass	~52 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(1-6) Mannosidase is defined as the amount of enzyme required to produce 2 µmoles of mannose in 1 minute at 37 centigrade, pH 5.0 from α(1-6) mannobiose.
Applications	α(1-6) Core Mannosidase is useful for: Determining mannose linkages Rapidly removing the α(1-6) core mannose resistant to other mannosidases
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 solution in 50 mM sodium phosphate pH 7.5, 0.1 mM ZnCl ₂ .

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms

α -D-mannosidase; p-nitrophenyl- α -mannosidase; α -D-mannopyranosidase; core α mannosidase; exo- α -mannosidase

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA