

CAZyme β -Mannanase 2 Technical Specifications

10 mg/ml
Cat. No.: 30654-1
Lot No.

Store at 4°C.

For *In Vitro* Research Use Only.
Not for Drug or Diagnostic use. Not for use in humans or animals.



Lucigen Corporation
2120 W. Greenview Dr.
Middleton, WI 53562 USA
Tel. 608-831-9011
Fax. 608-831-9012
Web www.lucigen.com
Email lucigen@lucigen.com

Product Description	β -Mannanase 2, mesophilic, recombinant expressed in <i>E. coli</i> . MW = 81.7 kDa
Purity	\geq 90% pure on Coomassie stained SDS-PAGE.
Recommended Reaction Conditions	β -Mannanase 2 has a pH optimum between pH 5 and pH 7 and a temperature optimum of 45°C.
Specific Activity	48 units/mg.
Activity Determination	One mannanase unit will produce 1 micromole of reducing sugar per minute at 37°C from a 1% solution of galactomannan (from Carob plant, Megazyme P-GALML) in 50 mM sodium acetate, pH 5.8. Assay method available upon request. Not all possible enzymatic activities of this protein have been evaluated.
Protein Concentration	10 mg/ml total protein as measured using the Pierce BCA™ protein assay with BSA as standard.
Stability	Store at 4°C. If properly stored at 4°C, this product is guaranteed for 6 months from date of purchase.
Storage Buffer	50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 25% glycerol, 0.1% Triton-X100.

Length:752 aa
Theoretical pI: 5.2
Theoretical MW: 81.7 kDa
PFAM Structure: GH26, CBM35
Activity: endo 1,4-beta mannosidase
Typical Specific Activity: 40-60 U/mg
Leader: (-)
Dockerin: (-)
Histag: (+)

Figure 1. Features of recombinant CAZyme β -Mannanase 2.

CAZyme™ β -Mannanase 2

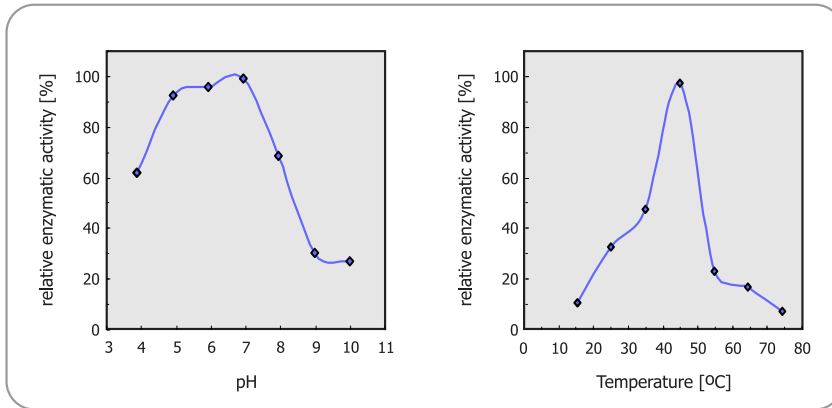


Figure 2. Temperature and pH tolerance of CAZyme β -Mannanase 2. Assay conditions available upon request

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