

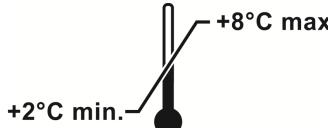
# CAZyme™ CthCbhA



C5•6 Technologies, Inc.

## Technical Specifications

Catalog No. 30620-1	2 mg (0.2 ml)
Lot No.	



**Store at 4°C. Do not re-freeze.**  
For *In Vitro* Research Use Only.  
Not for Drug or Diagnostic use. Not for use in humans or animals.

<b>Product Description</b>	CAZyme CthCbhA, thermostable, recombinant expressed in <i>E. coli</i> cells, cloned from <i>Clostridium thermocellum</i> . MW = 138 kDa.
<b>Purity</b>	≥ 90% pure on Coomassie stained SDS-PAGE.
<b>Recommended Reaction Conditions</b>	CAZyme CthCbhA is active between pH 6.0 and 7.0 at 70°C.
<b>Specific Activity</b>	1.7 units/mg.
<b>Activity Determination</b>	One cellobiohydrolase unit will produce 1 micromole of p-nitrophenol per minute at 70°C from a 1mM solution of 4-nitrophenyl-β-D-cellobioside (N5759, Sigma) in 50 mM sodium acetate, pH 5.8. Assay method available upon request.
<b>Protein Concentration</b>	10 mg/ml total protein as measured using the Bradford protein assay with BSA as standard.
<b>Stability</b>	Store at 4°C. If properly stored at 4°C, this product is guaranteed for 6 months from date of purchase.
<b>Storage Buffer</b>	50 mM Tris-HCl, pH 7.5, 100 mM NaCl, 25% glycerol.

**Note:** This enzyme is shipped frozen but should be stored at 4°C. Additional freeze/thaw cycles will result in decreased activity.

**C5•6 Technologies** 2905 Parmenter St, Middleton, WI 53562 USA  
(608) 836.3587  
[info@c56technologies.com](mailto:info@c56technologies.com) [www.c56technologies.com](http://www.c56technologies.com)

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LEDNSSTLPPYKNDLLYERTFDEGLCYPWHTCEDSGGKCSFDVVDVPGQPGNKAFVTVL  
DKGQNRWRVQMRHRGLTLEQGHTYRVRLKIWADASCKVYIKIGQMAEPYAEYWNNKWSPY  
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GDCNDDGKVNSTDVAVMKRYLKKENVNINLDNADVNADGKVNSTDFSILKRYVMKNIEEL  
PYRHHHHHH

**Length:** 1,209

**Theoretical pI:** 4.90

**Theoretical MW:** 136,000 Da

**PFAM Structure:** CBM4\_9 Cel D\_N GH9 CBM3

**Activity:** cellobiohydrolase

**Typical Specific Activity:** 1.7 u/mg

**Leader:** (-)

**Dockerin:** (+)

**Histag:** (+)

**Esterase:** (-)

Figure 1. Features and sequence of recombinant CAZyme Cellobiohydrolase 1.

## CAZyme™ CthCbhA

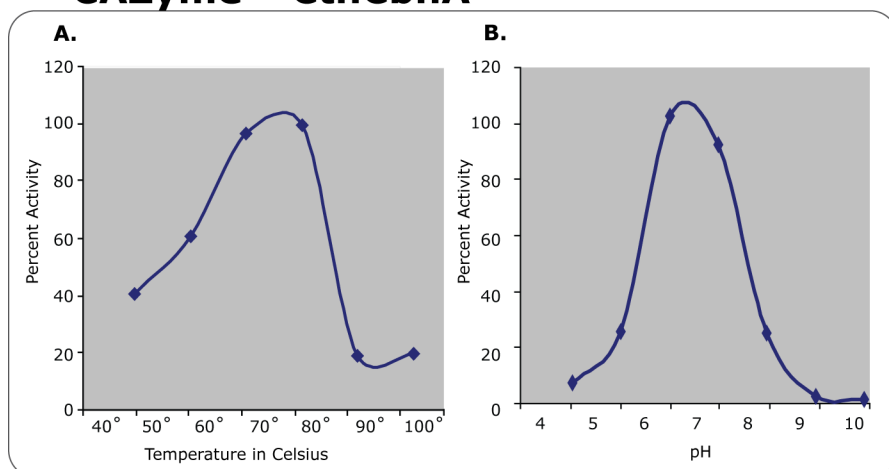


Figure 2. Temperature and pH tolerance of CAZyme Cellobiohydrolase 1. Assay conditions available upon request.