

# CAZyme™ Ara 1

## Technical Specifications



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Catalog No. 30501-1 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 Ara 1, thermostable, recombinant arabinofuranosidase expressed in <i>E. coli</i> . 10 mg/ml. MW = 57.0 kDa.
<b>Purity</b>	≥90% pure on Coomassie stained SDS-PAGE.
<b>Recommended Reaction Conditions</b>	α-L-Arabinofuranosidase 1 is active between pH 5.0 and 7.0 at 70°C. Optimum pH is 6.0 and optimum temperature is 70°C.
<b>Specific Activity</b>	340 units/mg.
<b>Activity Determination</b>	One α-L-arabinofuranosidase unit will produce 1 micromole of p-nitrophenol per minute at 70°C from a 1mM solution of 4-nitrophenyl-α-L-arabinofuranoside in 50 mM sodium acetate, pH 5.8. Assay method available upon request.
<b>Endoglucanase Activities</b>	α-L-Arabinofuranosidase 1 does not possess <i>endo</i> -xylanase, arabinoxylanase or β-glucanase activities when assayed using insoluble AZCL-linked substrates.
<b>Exoglucanase Activities</b>	α-L-Arabinofuranosidase 1 catalyzes the hydrolysis of 4 methylumbelliferyl-β-D-cellobioside and 4-methylumbelliferyl-β-D-xylopyranoside. Assay methods 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.

### Warranty

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## Features of recombinant CAZyme Ara 1.

**Length:** 502aa

**Theoretical pI:** 5.83

**Theoretical MW:** 57,171 Da

**PFAM Structure:** Alpha-L-AF\_C

**Activity:**  $\alpha$ -arabinofuranosidase

**Typical Specific Activity:** 340 u/mg

**Leader:** (-)

**Dockerin:** (-)

**Histag:** (-)

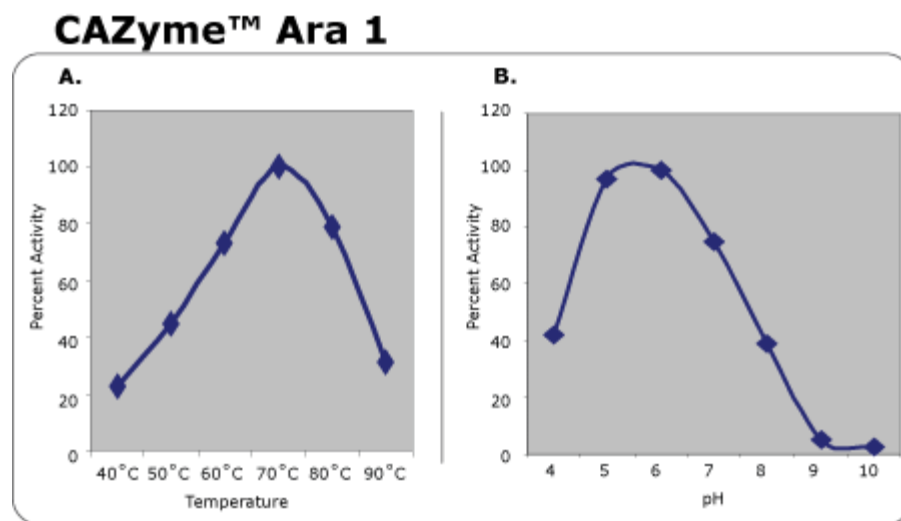


Figure 2. Temperature and pH tolerance of CAZyme Ara 1. Assay conditions available upon request.