

## CAZyme $\alpha$ -Glucuronidase 2 Technical Specifications



Lucigen Corporation  
2120 W. Greenview Dr.  
Middleton, WI 53562 USA  
Tel. 608-831-9011  
Fax. 608-831-9012  
Web [www.lucigen.com](http://www.lucigen.com)  
Email [lucigen@lucigen.com](mailto:lucigen@lucigen.com)

10 mg/ml  
Cat. No.: 30656-1  
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.

<b>Product Description</b>	$\alpha$ -Glucuronidase 2, thermophilic, recombinant expressed in <i>P. pastoris</i> . MW = 93.4 kDa
<b>Purity</b>	>90% pure on Coomassie stained SDS-PAGE.
<b>Recommended Reaction Conditions</b>	$\alpha$ -Glucuronidase 2 works best at pH 5 and 70°C in 50 mM sodium acetate buffer.
<b>Specific Activity</b>	22 units/mg.
<b>Activity Determination</b>	One $\alpha$ -Glucuronidase unit will produce 1 micromole of reducing sugar per minute at 50°C from a 1% solution of NaBH <sub>4</sub> reduced Mixed Aldouronic Acids (Tri:Tetra:Penta = 2:2:1; Megazyme, O-AMXR) in 50 mM sodium acetate at pH 5.0. Assay method available upon request.
<b>Protein Concentration</b>	10 mg/ml total protein as measured using Photometric absorption at 280 nm. The concentration was calculated using the absorption coefficient of 1.710 (abs @ 1mg/ml).
<b>Stability</b>	Store at 4°C. If properly stored, this product is guaranteed for 6 months from date of purchase.
<b>Storage Buffer</b>	50 mM Na-Acetate (pH 5), 20% glycerol.

**Length:**847 aa  
**Theoretical pI:** 6.4  
**Theoretical MW:** 93.4 kDa  
**PFAM Structure:** GH67N, GH67C, CBM6  
**Activity:** alpha-glucuronidase  
**Typical Specific Activity:** 15-25 U/mg  
**Leader:** (-)  
**Dockerin:** (-)  
**Histag:** (-)

Figure 1. Features of recombinant CAZyme  $\alpha$ -Glucuronidase 2.

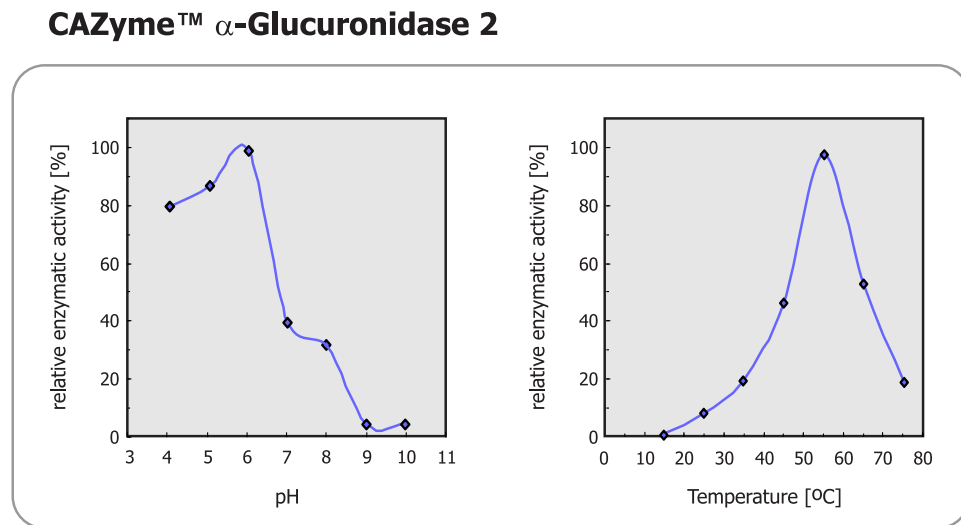


Figure 2. Temperature and pH tolerance of CAZyme  $\alpha$ -Glucuronidase 2. Assay conditions available upon request

### Warranty

Lucigen warrants that its products will conform to the standards stated in its product specification sheets in effect at the time of shipment. Lucigen will replace, free of charge, any product that does not conform to the specifications. This warranty limits Lucigen's liability only to the replacement of the product. THIS WARRANTY IS EXCLUSIVE, AND LUCIGEN MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The stated express warranties, and the remedy provided for breach thereof, are in lieu of all other liability or obligations of Lucigen for any damages whatsoever arising out of or in connection with the delivery, use, performance, or the inability to use any of its products. IN NO EVENT SHALL LUCIGEN BE LIABLE UNDER ANY LEGAL THEORY (INCLUDING BUT NOT LIMITED TO CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT, OR WARRANTY OF ANY KIND) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES (INCLUDING BUT NOT LIMITED TO LOST PROFITS). Without limiting the effect of the preceding sentence, Lucigen's maximum liability, if any, shall not exceed the purchase price paid by buyer for the product.