

## Recombinant Human GAA

GAA-28087TH Human

Lot. No. (See product label)

### Specification

<b>Product Overview</b>	Recombinant fragment Human GAA with N-terminal proprietary tag. Predicted MW 36.85kDa.
<b>Description</b>	This gene encodes acid alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. Different forms of acid alpha-glucosidase are obtained by proteolytic processing. Defects in this gene are the cause of glycogen storage disease II, also known as Pompe disease, which is an autosomal recessive disorder with a broad clinical spectrum. Three transcript variants encoding the same protein have been found for this gene.
<b>Protein length</b>	102 amino acids
<b>Molecular Weight</b>	36.850kDa inclusive of tags
<b>Source</b>	Wheat germ
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the glycosyl hydrolase 31 family. Contains 1 P-type (trefoil) domain.

### Gene Information

<b>Gene Name</b>	<a href="#">GAA glucosidase, alpha; acid [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GAA</a>
<b>Synonyms</b>	GAA; glucosidase, alpha; acid; lysosomal alpha-glucosidase; glycogen storage disease type II; Pompe disease;
<b>Gene ID</b>	<a href="#">2548</a>
<b>mRNA Refseq</b>	<a href="#">NM_000152</a>
<b>Protein Refseq</b>	<a href="#">NP_000143</a>
<b>MIM</b>	<a href="#">606800</a>
<b>Uniprot ID</b>	<a href="#">P10253</a>
<b>Chromosome Location</b>	17q25.2-q25.3

For Research Use Only

Creative BioMart. All rights reserved

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

Tel: +1-631-559-9269 Fax: +1-631-938-8127

E-mail: [info@creative-biomart.com](mailto:info@creative-biomart.com)

[www.creativebiomart.net](http://www.creativebiomart.net)

**Pathway**

Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

alpha-glucosidase activity; carbohydrate binding; hydrolase activity, hydrolyzing O-glycosyl compounds; maltose alpha-glucosidase activity;

For Research Use Only

Creative BioMart. All rights reserved

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

Tel: +1-631-559-9269 Fax: +1-631-938-8127

E-mail: [info@creative-biomart.com](mailto:info@creative-biomart.com)

[www.creativebiomart.net](http://www.creativebiomart.net)