

## Recombinant Mouse Gaa Protein, Myc/DDK-tagged

Cat. No. Gaa-3124M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length glucosidase, alpha, acid (Gaa), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>This gene encodes a lysosomal acid glucosidase that is involved in the degradation of glycogen. The encoded preproprotein undergoes proteolytic processing to generate a mature enzyme that cleaves alpha-1-4 and alpha-1-6 glycosidic bonds of glycogen, maltose and intermediate oligosaccharides within the lysosome. Mice lacking the encoded protein exhibit symptoms similar to human Pompe syndrome such as accumulation of glycogen in cardiac and skeletal muscle lysosomes resulting in reduced mobility and strength. Alternative splicing of this gene results in multiple transcript variants.</p>
<b>Molecular Mass</b>	106.2 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Gaa glucosidase, alpha, acid [ *Mus musculus* (house mouse) ]

**Official Symbol** Gaa

**Synonyms** Gaa; glucosidase, alpha, acid; lysosomal alpha-glucosidase; acid maltase; EC 3.2.1.20; E430018M07Rik

**Gene ID** 14387

**mRNA Refseq** NM\_001159324

**Protein Refseq** NP\_001152796

**UniProt ID** P70699

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