Recombinant Full Length Human GAA Protein, GST-tagged

Cat. No. GAA-6936HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length GAA(1 a.a. - 952 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	952 amino acids
Description	This gene encodes lysosomal alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. The encoded preproprotein is proteolytically processed to generate multiple intermediate forms and the mature form of the enzyme. Defects in this gene are the cause of glycogen storage disease II, also known as Pompe's disease, which is an autosomal recessive disorder with a broad clinical spectrum. Alternative splicing results in multiple transcript variants.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	131.7 kDa
AA Sequence	MGVRHPPCSHRLLAVCALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQ QGASRPGPRDAQAHPGRP RAVPTQCDVPPNSRFDCAPDKAITQEQCEARGCCYIP AKQGLQGAQMGQPWCFFPPSYPSYKLENLSSSEMGYTA TLTRTTPTFFPKDILTLR LDVMMETENRLHFTIKDPANRRYEVPLETPRVHSRAPSPLYSVEFSEEPFGVIVHRQ LDGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWNRDL

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	APTPGANLYGSHPFYLA LEDGGSAHGVFLLNSNAMDVVLQPSPALSWRSTGGILDV YIFLGPEPKSVVQQYLDVVGYPFMPPYWGLGFHLCR WGYSSTAITRQVVENMTRA HFPLDVQWNDLDYMDSRRDFTFNKDGFRDFPAMVQELHQGGRRYMMIVDPAISSS G PAGSYRPYDEGLRRGVFITNETGQPLIGKVWPGSTAFPDFTNPTALAWWEDMVA EFHDQVPFDGMWIDMNEPSNF IRGSEDGCPNNELENPPYVPGVVGGTLQAATICA SSHQFLSTHYNLHNLYGLTEAIASHRALVKARGTRPFVISR STFAGHGRYAGHWTG DVWSSWEQLASSVPEILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPFM RNHN SLLSLPQEPYSFSEPAQQAMRKALTLRYALLPHLYTLFHQAHVAGETVARPL FLEFPKDSSTWTVDHQLLWGEAL LITPVLQAGKAEVTGYFPLGTWYDLQTVPIEALG SLPPPPAAPREPAIHSEGQWVTLPAPLDTINVHLRAGYIIP LQGPGLTTTESRQQPM ALAVALTKGGEARGELFWDDGESLEVLERGAYTQVIFLARNNTIVNELVRVTSEGAG LQ LQKVTVLGVATAPQQVLSNGVPVSNFTYSPDTKVLDICVSLLMGEQFLVSWC
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GAA glucosidase, alpha; acid [Homo sapiens]
Official Symbol	GAA
Synonyms	GAA; glucosidase, alpha; acid; lysosomal alpha-glucosidase; glycogen storage disease type II; Pompe disease; acid maltase; aglucosidase alfa; LYAG;
Gene ID	2548

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mRNA Refseq	NM_000152
Protein Refseq	NP_000143
MIM	606800
UniProt ID	P10253

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