

Recombinant Human GAA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GAA-4807H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GAA MS Standard C13 and N15-labeled recombinant protein (NP_000143) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	105.32 kDa
AA Sequence	MGVRHPPCSHRLAVCALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQ QGASRPGPRDAQAHPRPRAVPTQCDVPPNSRFDCAPDKAITQEQQCEARGCCYIP AKQGLQGAQMGPWCFFPPSYPSYKLENLSSEMGYTATLTRTTPTFFPKDILTLRL DVMMETENRLHFTIKDPANRRYEVPLETPHVHSRAPSPLYSVEFSEEPFGVIVRRQL DGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWNRDLA PTPGANLYGSHPFYLALEDGGSAGHVLLNSNAMDVVLQPSPALSWRSTGGILDVYI FLGPEPKSVVQQYLDVVGYPFMPYPWGLGFHLCRWGYSSTAITRQVVENMTRAHF

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PLDVQWNDLDYMDSRDFTFNKDGFRDFPAMVQELHQGGRRYMMIVDPAISSSGP
 AGSYRPPYDEGLRRGVFITNETGQPLIGKVWPGSTAFPDFTNPTALAWWEDMVAEFH
 DQVPFDGMWIDMNEPSNFIRGSEDGCPNNELENPPYVPGVVGGTLQAATICASSH
 QFLSTHYNLHNLGLTEAIAASHRALVKARGTRPFVISRSTFAGHGGRYAGHWTGVDW
 SSWEQLASSVPEILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPFMRNH
 NSLLSLPQEPYSFSEPAQQAMRKALTRYALLPHLYTLFHQAHVAGETVARPLFLEF
 PKDSSTWTVDHQLLWGEALLITPVLQAGKAEVTGYFPLGTWYDLQTPVEALGSLP
 PPPAAPREPAIHSEGQWVTLPAPLDTINVHLRAGYIIPLQGPGLTTTESRQQPMALAV
 ALTKGGEARGELFWDDGESLEVLERGAYTQVIFLARNTIVNELVRVTSEGAGLQLQ
 KVTVLGVATAPQQVLSNGVPVSNFTYSPDTKVLDCVSLLMGEQFLVSWCTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GAA alpha glucosidase [Homo sapiens (human)]

Official Symbol GAA

Synonyms GAA; glucosidase, alpha; acid; lysosomal alpha-glucosidase; glycogen storage disease type II; Pompe disease; acid maltase; aglucosidase alfa; LYAG;

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Gene ID	2548
mRNA Refseq	NM_000152
Protein Refseq	NP_000143
MIM	606800
UniProt ID	P10253
SDS-PAGE	