

Product datasheet for PH308033

GAA (NM_001079804) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GAA MS Standard C13 and N15-labeled recombinant protein (NP_001073272)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208033
Predicted MW:	105.3 kDa
Protein Sequence:	>RC208033 protein sequence Red=Cloning site Green=Tags(s)

MGVRHPPCSHRLLAVALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQGASRPGPRDAQA
HPGRPRAVPTQC DVPPNSRFDCAPDKAITQE QCEARGCCYIPAKQGLQGAQMGPWCFFPPSYPSYKLEN
LSSSEMGYTATLTRTPTFFPKDILTLRLDVMETENRLHFTIKDPANRRYEVPLETPHVHSRAPSPLYS
VEFSEEPFGVIVRRQLDGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWN
RDLAPTPGANLYGSHPFYLALEDGGSAGHGVLLNSNAMDVVLQSPALSWRSTGGILDVYIFLGPEPKSV
VQQYLDVVGYPFMPYWG LGFHLCRWGSSTAITROVVENMTRAHFPLDVQWNDLDYMSRRDFTFNKDG
FRDFPAMVQELHQGRRYMMIVDPAISSSGPAGSYRYPYDEGLRRGVFITNETGQPLIGKVPWGSTAFPDF
TNPTALAWWEDMVAEFHDQVPFDGMWIDMNEPSNFIRGSEDCPNNELENPPYVPGVGGTLQAATICAS
SHQFLSTHYNLHNL YGLTEAIASHRALVKARGTRPFVISRSTFAGHGRYAGHWTGDVSSWEQLASSVPE
ILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPFMRNHNLSLLSPQEPYSFSEPAQQAMRKALT
LRYALLPHLYTLFHQAHVAGETVARPLFLEFPKDSSTWTDHQLLWGEALLITPVLQAGKAEVTGYFPLG
TWYDLQTVPVEALGSLPPPPAAPREPAIHSEGQWVTLPAPLDTINVHLRAGYIIPLQGGPLTTTESRQQP
MALAVALTKGGEARGELFWDGSESLEVLERGAYTQVIFLARNTIVNELVRVTSEGAGLQLQKVTVLGV
TAPQQVLSNGVPSNFTYSPDTKVL D ICVSLLMGEQFLVSWC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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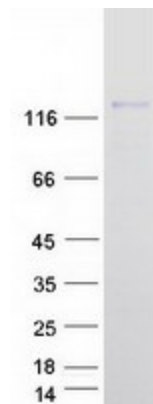
RefSeq:	NP_001073272
RefSeq Size:	3517
RefSeq ORF:	2856
Synonyms:	LYAG
Locus ID:	2548
UniProt ID:	P10253
Cytogenetics:	17q25.3

Summary: 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. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Galactose metabolism, Lysosome, Metabolic pathways, Starch and sucrose metabolism

Product images:



Coomassie blue staining of purified GAA protein (Cat# [TP308033]). The protein was produced from HEK293T cells transfected with GAA cDNA clone (Cat# [RC208033]) using MegaTran 2.0 (Cat# [TT210002]).