

Product datasheet for TP315796

GAA (NM_000152) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glucosidase, alpha; acid (GAA), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215796 representing NM_000152 Red =Cloning site Green =Tags(s)

MGVRHPPCSHRLAVCALVSLATAALLGHILLHDFLLVPRELSGSSPVLEETHPAHQQGASRPGPRDAQA
HPGRPRAVPTQCDVPPNSRFDKAITQEQCEARGCCYIPAKQGLQGAQMGPWCFFPPSYPSYKLE
N
LSSSEMGYTATLRTTPTFFPKDILTRLDMMETENRLHFTIKDPANRRYEVPLETPHVHSRAPSPLYS
VEFSEEPFGVIVRRQLDGRVLLNTTVAPLFFADQFLQLSTSLPSQYITGLAEHLSPLMLSTSWTRITLWN
RDLAPTGANLYGSHPFYLALEDGGSAGHVLLNSNAMDVWLQSPALSWRSTGGILDVYIFLGPEPKSV
VQQYLDVVGYPFMPYWGGLGFHLCRWGYSSAITRQVVENMTRAHFPLDVQWNDLDYMDSRDFTFN
KDG
FRDFPAMVQELHQGGRRYMMIVDPAISSSGPAGSYRPYDEGLRRGVFITNETGQPLIGKVWPGSTAFPDP
TNPTALAWWEDMVAEFHDQVPFDGMWIDMNEPSNFIRGSEDGCPNNELENPPYVPGVGGTLQAATIC
AS
SHQFLSTHYNLHNLGLTEAIAASHRALVKARGTRPFVISRSTFAGHGRYAGHWTDVWSSWEQLASSVPE
ILQFNLLGVPLVGADVCGFLGNTSEELCVRWTQLGAFYPMRNHNSLLSLPQEPYSFSEPAQQAMRKALT
LRYALLPHLYTLFHQAHVAGETVARPLFLEFPKDSSTWTVDHQLLWGEALLITPVLQAGKAEVTGYFPLG
TWYDLQTVPEALGSLPPPPAAPREPAIHSEGQWVTLAPLDTINVHLRAGYIIPLQGPGLTTTESRQQP
MALAVALTKGGEARGELFWDDGESLEVLERGAYTQVIFLARNTIVNELVVRTSEGAGLQLQKVTVLGVA
TAPQQVLSNGVPSNFTYSPDTKVLDICVSLLMGEQFLVSWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

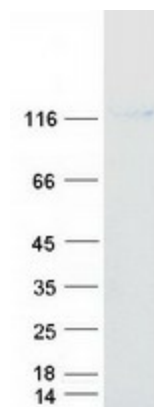
Tag:	C-Myc/DDK
Predicted MW:	102.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000143
Locus ID:	2548
UniProt ID:	P10253
RefSeq Size:	3846
Cytogenetics:	17q25.3
RefSeq ORF:	2856
Synonyms:	LYAG
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# TP315796). The protein was produced from HEK293T cells transfected with GAA cDNA clone (Cat# [RC215796]) using MegaTran 2.0 (Cat# [TT210002]).