

Product datasheet for **TP701073**

GAA (NM_001079803) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human glucosidase, alpha, acid (GAA), with N-terminal His tag, secretory expressed in HEK293 cells, 20ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC215840, encoding the region Ala70-Cys952 of GAA
Tag:	N-His
Predicted MW:	98 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4, 10% glycerol
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_001073271
Locus ID:	2548
UniProt ID:	P10253
RefSeq Size:	3597
Cytogenetics:	17q25.3
RefSeq ORF:	2856
Synonyms:	LYAG



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Summary:

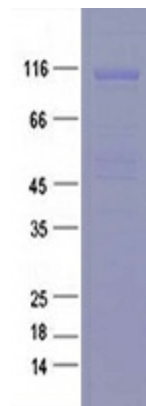
This gene encodes lysosomal alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. The encoded preproprotein is proteolytically processed to generate multiple intermediate forms and the mature form of the enzyme. Defects in this gene are the cause of glycogen storage 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:

Purified recombinant protein GAA was analyzed by SDS-PAGE gel and Coomassie Blue Staining.