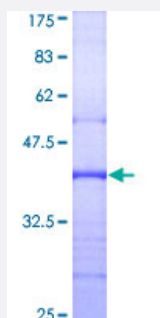


GAA (Human) Recombinant Protein (Q01)

Catalog # H00002548-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GAA partial ORF (AAH40431, 851 a.a. - 952 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GEARGELFWDDGESLEVLERGAYTQVIFLARNTIVNELVRVTSEGAGLQLQKVTVLGVATAPQQ VLSNGVPVSNFTYSPDTKVLDCVSLLMGEQFLVSWC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.96
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GAA

Entrez GeneID [2548](#)

GeneBank Accession# [BC040431](#)

Protein Accession# [AAH40431](#)

Gene Name GAA

Gene Alias LYAG

Gene Description glucosidase, alpha; acid

Omim ID [232300 606800](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes acid alpha-glucosidase, which is essential for the degradation of glycogen to glucose in lysosomes. Different forms of acid alpha-glucosidase are obtained by proteolytic processing. 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. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations acid alpha-glucosidase|acid maltase|alpha-glucosidase|glycogen storage disease type II|lysosomal alpha-glucosidase

Pathway

- [Galactose metabolism](#)
- [Lysosome](#)
- [Metabolic pathways](#)

- [Starch and sucrose metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glycogen Storage Disease Type II](#)
- [Heart Diseases](#)