

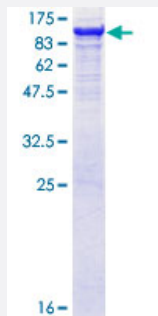
Full-Length

GBE1 (Human) Recombinant Protein (P01)

Catalog # H00002632-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GBE1 full-length ORF (AAH12098.1, 1 a.a. - 702 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAPMTPAARPEDYEALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILKNIGENEGGI
DKFSRGYESFGVHRCADGGLYCKEWAPGAEGVFLTGDFNGWNPFSYPYKKLDYGKWELYPPK
QNKSVLVPHGSKLKVVITSKSGEILYRISPWAKYVVREGDNVNYDWHWDPEHSYEFKHSRPKKP
RSLRIYESHVGISSHEGKVASYKHFTCNVLPRIKGLGYNCIQLMAIMEHAYYASFGYQTSFFAASSR
YGSPEELQELVDTAHSMSGIMLLDVVHSHASKNSADGLNMFDDGTSCYFHSGPRGTHDLWDSRL
FAYSSWEVLRFLLSNIRWWLEEYRFDGFRFDGVTSMLYHHHGVGGFGSGDYSEYFGLQVDEDAL
TYLMLANHLVHTLCPDSITAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWN
MGDIVYTLNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTPTPTVIDRGIQLHKMI
RLITHGLGGEGYLNFMGNEFGHPEWLDFFPRKGNNESYHYARRQFHLTDDDLLRYKFLNNFDRDM
NRLEERYGWLAAPQAYVSEKHGEGNKIAFERAGLLFIFNFHPSKSYTDYRVGTALPGKFKMLDSDA
AEYGGHQRLDHSTDFSEAFEHNGRPYSLLVYIPSRVALILQNVDLPN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

106.8

Interspecies Antigen Sequence

Mouse (92); Rat (92)

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 — GBE1

Entrez GeneID	2632
GeneBank Accession#	BC012098.1
Protein Accession#	AAH12098.1
Gene Name	GBE1
Gene Alias	GBE
Gene Description	glucan (1,4-alpha-), branching enzyme 1
Omim ID	232500 607839
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a glycogen branching enzyme that catalyzes the transfer of alpha-1,4-linked glucosyl units from the outer end of a glycogen chain to an alpha-1,6 position on the same or a neighboring glycogen chain. Branching of the chains is essential to increase the solubility of the glycogen molecule and, consequently, in reducing the osmotic pressure within cells. Highest level of this enzyme are found in liver and muscle. Mutations in this gene are associated with glycogen storage disease IV (also known as Andersen's disease). [provided by RefSeq]

Other Designations

amylase (1,4 to 1,6) transglucosidase | amylase (1,4 to 1,6) transglycosylase | glycogen branching enzyme | glycogen storage disease type IV

Pathway

- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)

Disease

- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Diseases](#)
- [Metabolic Syndrome X](#)
- [Obesity](#)
- [Tobacco Use Disorder](#)