

Recombinant Full Length Human GBE1 Protein, GST-tagged

Cat. No. GBE1-5520HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GBE1 full-length ORF (AAH12098.1, 1 a.a. - 702 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	702 amino acids
Description	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 Andersens disease). [provided by RefSeq
Molecular Mass	106.8 kDa
AA Sequence	MAAPMTPAARPEDYEAALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILK NIGENEGGIDKFSRGYESFGVHRCADGGLYCKEWAPGAEGVFLTGFNGWNPFSY PYKKLDYGKWELYIPPKQNKSVLVPHGSKLKVVITSKSGEILYRISPWAKYVVREGDN VNYDWIHWDPESHYEFKHSRPPKPRSLRIYESHVGISSHEGKVASYKHFTCNVLPRI KGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGSPEELQELVDTAHSMGIIVLL

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DVVHSHASKNSADGLNMFDTGTDSCYFHSGPRGTHDLWDSRLFAYSSWEVLRFLLS
 NIRWWLEEYRFDGFRFDGVTSMYHGGVGGQGFSGDYSEYFGLQVDEDALTYLML
 ANHLVHTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDE
 DWNMGDIVYTLNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTPF
 TPVIDRGIQLHKMIRLITHGLGGEGYLNFMGNEFGHPEWLDFPRKGNNESYHYARR
 QFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAPQAYVSEKHEGNKIIAFERAGLL
 FIFNFHPSKSYTDYRVGTALPGKFKIVLSDAAEYGGHQRLDHSTDFSEAFEHNGR
 PYSLLVYIPSRVALILQNVDLPN

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

GBE1 glucan (1,4-alpha-), branching enzyme 1 [*Homo sapiens*]

Official Symbol

GBE1

Synonyms

GBE1; glucan (1,4-alpha-), branching enzyme 1; 1,4-alpha-glucan-branching enzyme;
 Andersen disease; glycogen branching enzyme; glycogen storage disease type IV;
 brancher enzyme; glycogen-branching enzyme; amylo-(1,4 to 1,6) transglucosidase;
 amylo-(1,4 to 1,6) transglycosylase; GBE;

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Gene ID	2632
mRNA Refseq	NM_000158
Protein Refseq	NP_000149
MIM	607839
UniProt ID	Q04446

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