

Recombinant Human GBE1 Protein, GST-tagged

Cat. No. GBE1-4771H **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	Wheat Germ
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	MAAPMTPAARPEDYEALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILK NIGENEGGIDKFSRGYESFGVHRCADGGLYCKEWAPGAEGVFLTGDFNGWNPFSY PYKKLDYGKWELYIPPKQNKSVLVPHGSKLKVVITSKSGEILYRISPWAKYVVREGDN VNYDWIHWDPESYEFKHSRPPKPRSLRIYESHVGISSHEGKVASYKHFTCNVLPRI KGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGSPEELQELVDTAHSMGIIVLL DVVHSHASKNSADGLNMFDTGTDSCYFHSGPRGTHDLWDSRSLFAYSSWEVLRFLLS

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NIRWWLEEYRFDGFRFDGVTSMYHHHGVGQGFGDYSEYFGLQVDEDALTYLML
 ANHLVHTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIPDKWIQLLKEFKDE
 DWNMGDIVYTLTNRRYLEKCIAYAESHQALVGDKSLAFWLMDAEMYTNMSVLTPF
 TPVIDRGIQLHKMIRLITHGLGGEGYLNFMGNEFGHPEWLDFFPRKGNNESYHYARR
 QFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAPQAYVSEKHEGNKIIAFERAGLL
 FIFNFHPSKSYTDYRVGTALPGKFKIVLDSAAEYGGHQRLDHSTDFSEAFEHNGR
 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;

Gene ID

2632

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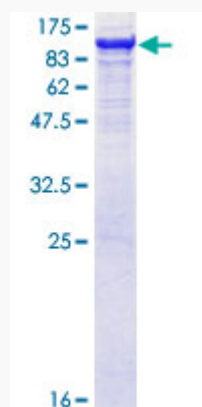
mRNA Refseq NM_000158

Protein Refseq NP_000149

MIM 607839

UniProt ID Q04446

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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