

Recombinant Full Length Human GBE1 Protein

Cat. No. GBE1-187HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GBE1 with a N terminal proprietary tag: predicted molecular weight 103.29 kDa.
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).
Form	Liquid
Molecular Mass	103.290kDa inclusive of tags
AA Sequence	MAAPMTPAARPEDYEAALNAALADVPELARLLEIDPYLKP YAVDFQRRYKQFSQILK NIGENEGGIDKFSRGYESFGVHR CADGGLYCKEWAPGAEGVFLTGDFNGWNPFS YPYKKLDYG KWELYIPPKQNKSVLVPHGSKLKVVITSKSGEILYRISPW AKYVVREG DNVNYDWIHWDPESYEFKHSRPPKPRSLRIY ESHVGISSHEGKVASYKHFTCNVL

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PRIKGLGYNCIQLMAI MEHAYYASFGYQITSFFAASSRYGSPEELQELVDTAHS MG II
VLLDVVHSHASKNSADGLNMF DGT DSCYFHSGPRGTHD LWDSRLFAYSSWEVLRF
LLSNIRWWLEEYRFDGFRFDGVT SMLYHHHGVGQGFGSDYSEYFGLQVDEDALTY
LMLANHLV HTLCPDSITIAEDVSGMPALCSPISQGGGGFDYRLAMAIP DKWIQLLKE
FKDEDWNMGDIVYTLTNRRYLEKCIAYAESH DQALVGDKSLAFWLMDAEMYTNMS
VLT PFTPVIDRGIQLH KMIRLITHGLGGEGYLNFMGNEFGHPEWLD FPRKGN NESY
HYARRQFH LTDDD LRYKFLNNFDRDMNRLEERYGWLAAP QAYVSEKH EGNKIIAF
ERAGLLFIFNFHPSKSYTDYRVGT ALPGKFKIVLDS DAAEYGGHQRLDHST DFFSEA
FEHNGRP YSLLVYIPSRVALILQNVDLPN

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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

Gene ID 2632

mRNA Refseq NM_000158

Protein Refseq NP_000149

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MIM	607839
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UniProt ID	Q04446
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