

## Recombinant Human GBE1 Protein, MYC/DDK-tagged

Cat. No. GBE1-1322H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant human GBE1 protein, fused to MYC/DDK tag at C-terminus, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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, Jul 2008] |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 80.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

### GENE INFORMATION

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|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | GBE1 glucan (1,4-alpha-), branching enzyme 1 [ Homo sapiens ] |
| <b>Official Symbol</b> | GBE1                                                          |
| <b>Synonyms</b>        | APBD; GBE; GSD4                                               |
| <b>Gene ID</b>         | 2632                                                          |
| <b>mRNA Refseq</b>     | NM_000158                                                     |
| <b>Protein Refseq</b>  | NP_000149                                                     |
| <b>MIM</b>             | 607839                                                        |
| <b>UniProt ID</b>      | Q04446                                                        |

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