

## Recombinant Human GAD1 protein, His-tagged

**Cat. No.** GAD1-1180H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GAD1 protein(Q99259-1) (Met 1-Leu 594) was expressed in Insect Cells, fused with a polyhistidine tag at the C-terminus.                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                            |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-594 aa                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, pH 8.5.                                                                                                                                 |
| <b>Molecular Mass</b>   | The recombinant human GAD1 consists of 605 amino acids and predicts a molecular mass of 68.3 kDa. It migrates as an approximately 64 kDa band in SDS-PAGE in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                  |
| <b>Purity</b>           | > 92 % as determined by SDS-PAGE                                                                                                                                                                 |
| <b>Storage</b>          | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.             |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                    |

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## GENE INFORMATION

|                        |                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GAD1 glutamate decarboxylase 1 (brain, 67kDa) [ Homo sapiens ]                                                                                                                                                                          |
| <b>Official Symbol</b> | GAD1                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | GAD1; glutamate decarboxylase 1 (brain, 67kDa); GAD, glutamate decarboxylase 1 (brain, 67kD); glutamate decarboxylase 1; GAD-67; 67 kDa glutamic acid decarboxylase; glutamate decarboxylase 67 kDa isoform; GAD; SCP; CPSQ1; FLJ45882; |
| <b>Gene ID</b>         | 2571                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_000817                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_000808                                                                                                                                                                                                                               |
| <b>MIM</b>             | 605363                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>      | Q99259                                                                                                                                                                                                                                  |

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