

# Recombinant Human GAD67 protein(Met1-Leu594), His-tagged

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

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human GAD1 (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>    | Met1-Leu594   |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% gly, pH 8.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.  |
| <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>           | > 80 % as determined by SDS-PAGE  |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

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**Reconstitution** 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.

## GENE INFORMATION

**Gene Name** [GAD1 glutamate decarboxylase 1 \(brain, 67kDa\) \[ Homo sapiens \]](#)

**Official Symbol** GAD1

**Synonyms** 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;

**Gene ID** [2571](#)

**mRNA Refseq** [NM\\_000817](#)

**Protein Refseq** [NP\\_000808](#)

**MIM** [605363](#)

**UniProt ID** [Q99259](#)

**Chromosome Location** 2q31

**Pathway** Alanine and aspartate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Biogenic Amine Synthesis, organism-specific biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate

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metabolism, conserved biosystem; GABA (gamma-Aminobutyrate) shunt, organism-specific biosystem;

**Function**

carboxy-lyase activity; glutamate decarboxylase activity; lyase activity; protein binding; pyridoxal phosphate binding;

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