Recombinant Human GAD2 protein, GST tagged

Cat. No. GAD2-9250H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAD2(Met1-Leu585) fused with GST tag at N-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	Met1-Leu585
Predicted N Terminal	Met
Form	Lyophilized from sterile 200 Tirs, 150 mM NaCl, pH 8.0, 10 % glycerol, 1 mM GSH. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
Molecular Mass	The recombinant human GAD2 consists of 819 amino acids and predicts a molecular mass of 92.6 kDa.
Endotoxin	<1.0 EU per μg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is

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	recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	GAD2 glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa) [Homo sapiens]
Official Symbol	GAD2
Synonyms	GAD2; glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa); glutamate decarboxylase 2 (pancreatic islets and brain, 65kD); glutamate decarboxylase 2; GAD65; GAD-65; 65 kDa glutamic acid decarboxylase; Glutamate decarboxylase-2 (pancreas); glutamate decarboxylase 65 kDa isoform; MGC161605; MGC161607;
Gene ID	2572
mRNA Refseq	NM_000818
Protein Refseq	NP_000809
MIM	138275

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UniProt ID	Q05329
Chromosome Location	10p13-p11.2
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 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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