

Recombinant Full Length Human GAD1 Protein, GST-tagged

Cat. No. GAD1-5204HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GAD1 full-length ORF (AAH26349, 1 a.a. - 594 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	594 amino acids
Description	This gene encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form. [provided by RefSeq
Molecular Mass	91.08 kDa
AA Sequence	MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNS LEEKSRLVSAFKERQSSKNLLSCNSDRDARFRRTETDFSNFLFARDLLPAKNGEEQ TVQFLLEVVDILLNYVRKTFDRSTKVLDFHHPHQLLEGMEGFNLELSDHPESLEQILV DCRDTLKYGVRTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFVLMEQI

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TLKKMREIVGWSSKDG DGIFSPGG AISNMYSIMAARYKYFPEVKTGMAAVPKLVLF
TSEQSHYSIKKAGAALGFGTDNVILIKCNERGKIIPADFEAKILEAKQKGYVPFYVNAT
AGTTVYGAFDPIQEIADICEKYNLWLHVDAAWGGGLLMSRKHHRHKLNGIERANSVT
WNPHKMMGVLLQCSAILVKEKGILQGCNQM CAGYLFQPDQYDVSYDTGDKAIQC
GRHVDIFKFWLMWKAKGTVGFENQINKCLELAEYLYAKIKNREEFEMVFNGEPEHT
NVCFWYIPQSLRGVPDSPQRREKLHKVAPKIKALMMESGTTMVGYPQPGDKANFF
RMVISNPAATQSDIDFLIEEIERLGQDL

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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mRNA Refseq	NM_000817
Protein Refseq	NP_000808
MIM	605363
UniProt ID	Q99259

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