Recombinant Human GAD1 Protein

Cat. No. GAD1-0009H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAD1 Protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
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.
Applications	ELISA, CLIA, CG
Notes	For research use only, not for use in diagnostic procedure.
Storage	Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade. Avoid multiple freeze/thaw cycles.
Storage Buffer	Supplied as a 0.2 μm filtered solution of PBS, pH7.4

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GENE INFORMATION

Gene Name	GAD1 glutamate decarboxylase 1 [Homo sapiens (human)]
Official Symbol	GAD1
Synonyms	GAD1; glutamate decarboxylase 1; GAD; SCP; CPSQ1; DEE89; glutamate decarboxylase 1; 67 kDa glutamic acid decarboxylase; GAD-67; glutamate decarboxylase 1 (brain, 67kDa); EC 4.1.1.15
Gene ID	2571
mRNA Refseq	NM_000817
Protein Refseq	NP_000808
MIM	605363
UniProt ID	Q99259

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