Recombinant Human GAD2 Protein, MYC/DDK-tagged

Cat. No. GAD2-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa) (GAD2), transcript variant 2, was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	1-585 aa
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 autoantibody and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Oct 2008].
Molecular Mass	65.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 g/mL as determined by microplate BCA method.
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	GAD2 glutamate decarboxylase 2 [Homo sapiens (human)]
Official Symbol	GAD2
Synonyms	GAD2; glutamate decarboxylase 2; GAD65; glutamate decarboxylase 2; 65 kDa glutamic acid decarboxylase; GAD-65; Glutamate decarboxylase-2 (pancreas); glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa); glutamate decarboxylase 65 kDa isoform; EC 4.1.1.15
Gene ID	2572
mRNA Refseq	NM_000818
Protein Refseq	NP_000809
MIM	138275
UniProt ID	Q05329

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