

Recombinant Full Length Human GAD2 Protein

Cat. No. GAD2-185HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GAD65 with N terminal proprietary tag; Predicted MWt 90.42 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	585 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 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.
Form	Liquid
Molecular Mass	90.420kDa inclusive of tags
AA Sequence	MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGI GNKLCALLYGDAEK PAESGGSQPPRAAARKAACACDQK PCSCSKVDVNYAFLHATDLLPACDGERPTLA FLQDVMNIL LQYVVKSFDNRSTKVIDFHYPNELLQEYNWELADQPQNL EEILMHCQT

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TLKYAIKTGHPRYFNQLSTGLDMVGLAADWL TSTANTNMFTYEIAPVFVLLLEYVTLK
 KMREIIGWPGGS GDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLI AFTS
 ESHFSLKKGAAALGIGTDSVILIKCDERGMIP SDLERRILEAKQKGFVPFLVSATA
 GTTVYGAFDPLLAVAD ICKKYKIWMHVDAAWGGGLLMSRKHKWKLSGVERANSV T
 WNPHKMMGVPLQCSALLVREEGLMQNCNQMHASYLFFQQD KHYDLSYDTGDKAL
 QCGRHVDVFKLWLMWRAKGTTFE AHVDKCLELAELYNIKNREGYEMVFDGKP
 QHTNVCFWY IPPSLRTLEDNEERMSRLSKVAPVIKARMMEYGTTMVS YQPLGDKV
 NFFRMVISNPAATHQDIDFLIEEIERLGQDL

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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

Gene ID [2572](#)

mRNA Refseq [NM_000818](#)

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Protein Refseq	NP_000809
MIM	138275
UniProt ID	Q05329

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