

Recombinant Human GAD2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GAD2-4173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GAD2 MS Standard C13 and N15-labeled recombinant protein (NP_000809) with a C-terminal MYC/DDK tag, 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.
Molecular Mass	65.4 kDa
AA Sequence	MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEK PAESGGSQPPRAAARKAACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAF LQDVMNILLQYVVKSFDRSTKVIDFHYPNELLQEYNWELADQPQNLEEILMHCQTTL KYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIAPVFVLLLEYVTLKKM

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REIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEHS
 HFSLKKGAAALGIGTDSVILIKCDERGMIPSDLERRILEAKQKGFVPFLVSATAGTTV
 YGAFDPLLAVADICKKYKIWMHVDAAWGGGLLSRKHKWKLSGVERANSVTWNPH
 KMMGVPLQCSALLVREEGLMQNCNQMHASYLFQQDKHYDLSYDTGDKALQCGRH
 VDVFKLWLMWRAKGGTGFVAHVVDKCLELAELYNIKNREGYEMVFDGKPKHTNVC
 FWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMEYGTMMVSYQPLGDKVNFFRMVIS
 NPAATHQDIDFLIEEIERLGQDLGPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GAD2 glutamate decarboxylase 2 [Homo sapiens (human)]

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

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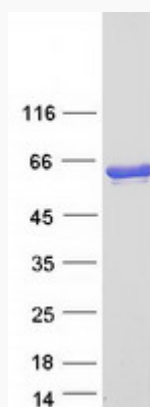
mRNA Refseq NM_000818

Protein Refseq NP_000809

MIM 138275

UniProt ID Q05329

SDS-PAGE



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