Recombinant Full Length Human GAD2 Protein, C-Flag-tagged

Cat. No. GAD2-517HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GAD2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	65.2 kDa
AA Sequence	MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEK PAESGGSQPPRAAARK AACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLA FLQDVMNILLQYVVKSFDRSTKVIDFHYPNE LLQEYNWELADQPQNLEEILMHCQTT

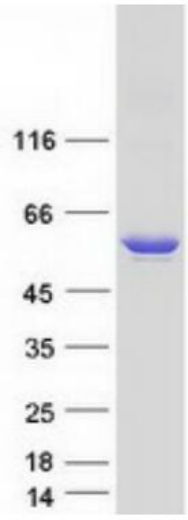
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	LKYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIA PVFVLLEYVTLKK MREIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEH SHFSLKKGAAALGIGTDSVILIKCDERGKMIPSDLERRILEAKQKGFVPFLVSATAGTT VYGAFDPLLAV ADICKKYKIWMHVDAAWGGGLLMSRKHKWKLSGVERANSVTWN PHKMMGVPLQCSALLVREEGLMQNCNQ MHASYLFQQDKHYDLSYDTGDKALQCG RHVDVFKLWLMWRAKGTTGFEAHVDKCLELAEYLYNIIKNREG YEMVFDGKPQHT NVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMEYGTTMVSYQPLGDKVNFFR MV ISNPAATHQDIDFLIEEIERLGQDLSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes mellitus
Full Length	Full L.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	GAD2 glutamate decarboxylase 2 [Homo sapiens (human)]
Official Symbol	GAD2
Synonyms	GAD65
Gene ID	2572
mRNA Refseq	NM_001134366.2
Protein Refseq	NP_001127838.1
MIM	138275
UniProt ID	Q05329



Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Coomassie blue staining of purified GAD2 protein.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA