Recombinant Human GAD2 Protein, N-His tagged

Cat. No. GAD2-9170H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAD2 Protein with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
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	Lyophilized
Molecular Mass	67.5 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASPGSGFWSFGSEDGSGDSENPGTARAWCQVA QKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARKAACACDQKPCSCSKVDVN YAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNELLQEYN WELADQPQNLEEILMHCQTTLKYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANT

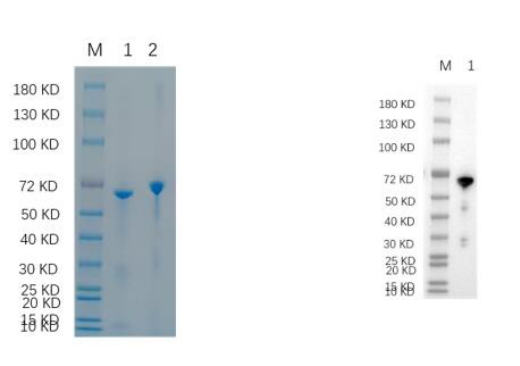
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	NMFTYEIAPVFVLLEYVTLKKMREIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFP EVKEKGMAALPRLIAFTSEHSHFSLKKGAAALGIGTDSVILIKCDERGKMIPSDLERRI LEAKQKGFVPFLVSATAGTTVYGAFDPLLAVADICKKYKIWMHVDAAWGGGLLMSR KHKWKLSGVERANSVTWNPHKMMGVPLQCSALLVREEGLMQNCNQMHASYLFQQ DKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGTTGFEAHVDKCLELAEYLYNII KNREGYEMVFDGKPQHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMEY GTTMVSYQPLGDKVNFFRMVISNPAATHQDIDFLIEEIERLGQDL
Purity	90%
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 8.0, 5% trehalose, 5% mannitol.

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); EC 4.1.1.15
Gene ID	2572
mRNA Refseq	NM_000818
Protein Refseq	NP_000809

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MIM	138275
UniProt ID	Q05329
Reducing 12% SDS-PAGE and WB analysis profile of purified GAD2	 1. GAD2 2. BSA

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