

Product datasheet for **TP325984M**

GAD65 (GAD2) (NM_001134366) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa) (GAD2), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC225984 protein sequence Red =Cloning site Green =Tags(s)
	<p>MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARK AACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNE LLQEYNWELADQPQNLEEILMHCQTTLKYAIKTHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIA PVFVLLLEYVTLKMKREIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEH SHFSLKKGAAALGIGTDSVILIKCDERGMIPSDLERRILEAKQKGFVPLVSATAGTTVYGAFDPLLAV ADICKKYKIWMHVDAAWGGGLLSRKHKWKLSGVERANSVTWNPBKMMGVPLQCSALLVREEGLMQNCNQ MHASYLFQQDKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAGTTGFEAHVDKCLELAELYLNIIKNREG YEMVFDGKQPHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMMEYGTMMVSYQPLGDKVNFRRMV ISNPAATHQDIDFLIEEIERLGQDL</p> <p>SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	65.2 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_001127838](#)

Locus ID: 2572

UniProt ID: [Q05329](#), [Q5VZ30](#)

RefSeq Size: 2419

Cytogenetics: 10p12.1

RefSeq ORF: 1755

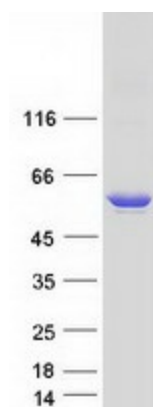
Synonyms: GAD65

Summary: 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]

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

Product images:



Coomassie blue staining of purified GAD2 protein (Cat# [TP325984]). The protein was produced from HEK293T cells transfected with GAD2 cDNA clone (Cat# [RC225984]) using MegaTran 2.0 (Cat# [TT210002]).