

Product datasheet for TP323464M

OriGene Technologies, Inc.

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GAD65 (GAD2) (NM 000818) 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 1, 100 μg

Species: Human
Expression Host: HEK293T

Expression cDNA >RC223464 prote

Clone or AA Sequence:

>RC223464 protein sequence Red=Cloning site Green=Tags(s)

MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARK AACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNE LLQEYNWELADQPQNLEEILMHCQTTLKYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIA PVFVLLEYVTLKKMREIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEH SHFSLKKGAAALGIGTDSVILIKCDERGKMIPSDLERRILEAKQKGFVPFLVSATAGTTVYGAFDPLLAV

ADICKKYKIWMHVDAAWGGGLLMSRKHKWKLSGVERANSVTWNPHKMMGVPLQCSALLVREEGLMQNCNQ MHASYLFQQDKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGTTGFEAHVDKCLELAEYLYNIIKNREG YEMVFDGKPQHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMEYGTTMVSYQPLGDKVNFFRMV

ISNPAATHQDIDFLIEEIERLGQDL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 65.2 kDa

Concentration: >0.05 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 000809

Locus ID: 2572

UniProt ID: <u>Q05329</u>, <u>Q5VZ30</u>

RefSeq Size: 2824

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

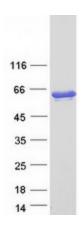
protein. [provided by RefSeq, Oct 2008]

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# [TP323464]). The protein was produced from HEK293T cells transfected with GAD2 cDNA clone (Cat# [RC223464]) using MegaTran 2.0 (Cat# [TT210002]).