

Product datasheet for **TP323464L**

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, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC223464 protein sequence

Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MASPGSGFWSFGSEDGSGDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAAARK
AACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNE
LLQEYNWELADQPQNLEEILMHCQTTLKYAIKTHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIA
PVFVLLLEYVTLKMKREIIGWPGGSGDGIFSPGGAISNMYAMMIARFKMFPEVKEKGMALPRLIAFTSEH
SHFSLKKGAAALGIGTDSVILIKCDERGMIPSDLERRILEAKQKGFVPLVSATAGTTVYGAFDPLLAV
ADICKKYKIWMHVDAAWGGGLLSRKHKWKLSGVERANSVTWNPBKMMGVPLQCSALLVREEGLMQNCNQ
MHASYLFQQDKHYDLSYDTGDKALQCGRHVDVFKLWLMWRAKGTGFEAHVDKCLELAELYLNIIKNREG
YEMVFDGKPKQHTNVCFWYIPPSLRTLEDNEERMSRLSKVAPVIKARMMMEYGTMMVSYQPLGDKVNFRRMV
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: [Q05329](#), [Q5VZ30](#)

RefSeq Size: 2824

Cytogenetics: 10p12.1

RefSeq ORF: 1755

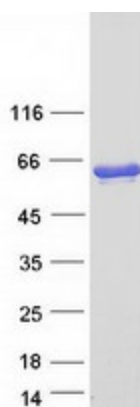
Synonyms: GAD65

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]).