

Product datasheet for TP307226

GAD67 (GAD1) (NM_000817) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human glutamate decarboxylase 1 (brain, 67kDa) (GAD1), transcript variant GAD67, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207226 protein sequence Red=Cloning site Green=Tags(s)

MASSTPSSSATSSNAGADPNTTTLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEKSRLLVSAFKER
QSSKNLLSCENS DRDARFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLD
FHHPHQLLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPRFFNQLSTGLDIIGLAGEWLTSTAN
TNMFTYEIAPVFLMEQITLKKMREIVGWSSKDGDFSPGGAISNMYSIMAARYKYFPEVKTGMAAVP
KLVLTSEQSRYSIKKAGAALFGTDNVILIKCNERGEIIPADFEAKILEAKQKGYVPFVYNATAGTTVY
GAFDPQIEIADICEKYNLWLHVDAAWGGGLLMSRKHHRKLNKNGIERANSVTWNPHKMMGVLLQCSAILVKE
KGILQGCNQMCAGYLFQPKQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTGVGFENQINKCLELAEYL
YAKIKNREEFEMVFNGEPEHTNVCWFYIPQSLRGVPDSPQRREKLHKVAPKIKALMMESGTTMVGYPQPG
DKANFFRMVISNPAATQSDIDFLIEEIERLGQDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

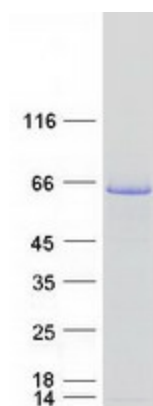
Tag:	C-Myc/DDK
Predicted MW:	66.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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_000808
Locus ID:	2571
UniProt ID:	Q99259
RefSeq Size:	3488
Cytogenetics:	2q31.1
RefSeq ORF:	1782
Synonyms:	CPSQ1; DEE89; GAD; SCP
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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of this gene results in two products, the predominant 67-kD form and a less-frequent 25-kD form. [provided by RefSeq, Jul 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 GAD1 protein (Cat# TP307226). The protein was produced from HEK293T cells transfected with GAD1 cDNA clone (Cat# [RC207226]) using MegaTran 2.0 (Cat# [TT210002]).