

Product datasheet for AR51658PU-N

OriGene Technologies, Inc.

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GAD1 / GAD67 (1-594, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: GAD1 / GAD67 (1-594, His-tag) human recombinant protein, 0.5 mg

Species: Human E. coli **Expression Host:**

Expression cDNA Clone

MGSSHHHHHH SSGLVPRGSH MGSMASSTPS SSATSSNAGA DPNTTNLRPT TYDTWCGVAH or AA Sequence:

GCTRKLGLKI CGFLQRTNSL EEKSRLVSAF KERQSSKNLL SCENSDRDAR FRRTETDFSN LFARDLLPAK

NGEEQTVQFL LEVVDILLNY VRKTFDRSTK VLDFHHPHQL LEGMEGFNLE LSDHPESLEQ

ILVDCRDTLK YGVRTGHPRF FNQLSTGLDI IGLAGEWLTS TANTNMFTYE IAPVFVLMEQ ITLKKMREIV

GWSSKDGDGI FSPGGAISNM YSIMAARYKY FPEVKTKGMA AVPKLVLFTS EQSHYSIKKA

GAALGFGTDN VILIKCNERG KIIPADFEAK ILEAKQKGYV PFYVNATAGT TVYGAFDPIQ EIADICEKYN LWLHVDAAWG GGLLMSRKHR HKLNGIERAN SVTWNPHKMM GVLLQCSAIL VKEKGILQGC NQMCAGYLFQ PDKQYDVSYD TGDKAIQCGR HVDIFKFWLM WKAKGTVGFE NQINKCLELA

EYLYAKIKNR EEFEMVFNGE PEHTNVCFWY IPQSLRGVPD SPQRREKLHK VAPKIKALMM

ESGTTMVGYQ PQGDKANFFR MVISNPAATQ SDIDFLIEEI ERLGQDL

Tag: His-tag Predicted MW: 69.3 kDa **Concentration:** lot specific

Purity: >80% by SDS - PAGE

Buffer: Presentation State: This purified protein is available in a denatured form, making it less

suitable for functional studies. Denatured proteins are better suited for applications like

Western Blot (WB) or imaging assays.

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

Preparation: Liquid purified protein

Protein Description: Recombinant human GAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid Storage:

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 000808





Locus ID: 2571

 UniProt ID:
 Q99259

 Cytogenetics:
 2q31.1

Synonyms: Glutamate decarboxylase 1, GAD-67

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]

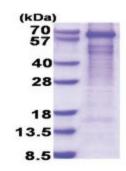
Protein Families: Druggable Genome

Protein Pathways: Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate

metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes

mellitus

Product images:



15% SDS-PAGE (3ug)