

Recombinant Human GAD2 protein, His & GST-tagged

Cat. No. GAD2-6734H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GAD2 aa. (Arg65~Arg105) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Arg65~Arg105
Description	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.
Form	Freeze-dried powder
Molecular Mass	34kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 6.4.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GAD2 glutamate decarboxylase 2 [Homo sapiens (human)]
Official Symbol	GAD2
Synonyms	GAD65; 65 kDa glutamic acid decarboxylase; GAD-65; Glutamate decarboxylase-2 (pancreas); glutamate decarboxylase 2 (pancreatic islets and brain, 65kDa); glutamate decarboxylase 65 kDa isoform; glutamate decarboxylase 2
Gene ID	2572

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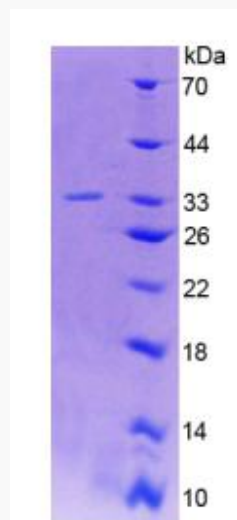
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mRNA Refseq [NM_000818.2](#)

Protein Refseq [NP_000809.1](#)

UniProt ID [Q05329](#)

SDS-PAGE



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