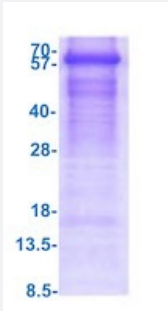


Full-Length

GAD1 (Human) Recombinant Protein

Catalog # P7689 Size 500 ug

Applications



SDS-PAGE analysis of GAD1 (Human) Recombinant Protein

Specification

Product Description	Human GAD1 (NP_000808, 1 a.a. - 594 a.a) full-length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHSSGLVPRGSHMGSMASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCT RKLGLKICGFLQRTNSLEEKSRVSAFKERQSSKNLLSCENS DRDARFRRTETDFS NLFARDLLP AKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLD FHHPHQLLEGMEGFNLELSDHPESLEQILVD CRDTLKYGVRTGHP RFFNQLSTGLDIIGLAGEWL TSTANTNMFTYEIAPVFVLMEQITLKKMREIVG WSSKDGDGIFSPGGAISNMYSIMAARYKYFPEVKTKGMAAVPKLVLTSEQSHYSIKKAGAALGF GTDNVILKCN ERGKIIPADFEAKILEAKQKGYVPFYVNATAGTTVYGAFDPIQEIADICEKYNLWLHV DAAWGGGLLMSRKH RHKLNGIERANSVTWNPHKMMGVLLQCSAILVKEKGILQGCNQMCAGYLF QPDKQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGT VGFENQINKCLELAELYAKIKNREEFE MVFNGEPEHTNVC FWYIPQSLRGVPDSPQRREKLHKVAPKIKALMMESGTTMVGYPQPGD KAN FFRMVISNPAATQSDIDFLIEEIERLGQDL
Host	Escherichia coli
Theoretical MW (kDa)	69.3
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Concentration	0.5mg/mL

Purity	> 80% by SDS-PAGE
Quality Control Testing	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain. SDS-PAGE analysis of GAD1 (Human) Recombinant Protein
Recommend Usage	SDS-PAGE Denatured The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (10% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — GAD1

Entrez GeneID	2571
Protein Accession#	Q99259
Gene Name	GAD1
Gene Alias	FLJ45882, GAD, SCP
Gene Description	glutamate decarboxylase 1 (brain, 67kDa)
Omim ID	603513 605363
Gene Ontology	Hyperlink
Gene 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]
Other Designations	OTTHUMP00000041055 glutamate decarboxylase 1 glutamate decarboxylase 1 (brain, 67kD)

Pathway

- [Alanine](#)
- [beta-Alanine metabolism](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)
- [Taurine and hypotaurine metabolism](#)
- [Type I diabetes mellitus](#)

Disease

- [Alcoholism](#)
- [Anxiety Disorders](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Disease Models](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Kidney Failure](#)
- [Mental Disorders](#)
- [Neuropsychological Tests](#)
- [Neurotic Disorders](#)
- [Psychiatric Status Rating Scales](#)

- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sleep Disorders](#)
- [Weight Gain](#)