

Glutamate decarboxylase 1 (GAD1) Recombinant Protein | GAD1 recombinant protein

Recombinant Human Glutamate decarboxylase 1 (GAD1)

CATALOG # AAA116693	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Glutamate decarboxylase 1 (GAD1); Recombinant Human Glutamate decarboxylase 1 (GAD1); GAD1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1 – 594aa; Full Length
Sequence	MASSTPSSSA TSSNAGADPN TTNLRPTTYD TWCGVAHGCT RKLGLKICGF LQRTNSLEEK SRLVSAFKER QSSKNLLSCE NSDRDARFRR TETDFSNLFA RDLLPAKNGE EQTVQFLLEV VDILLNYVRK TFDIRSTKVLD FHHPHQLLEG MEGFNLELSD HPESLEQILV DCRDTLKYGV RTGHPRFFNQ LSTGLDIIGL AGEWLTSTAN TNMFTYEIAP VFVLEMEQITL KKMREIVGWS SKDGDGIFSP GGAISNMYSI MAARYKYFPE VKTKGMAAVP KLVLFTSEQS HYSIKKAGAA LGFGTDNVIL IKCNERGKII PADFEAKILE AKQKGYVPFY VNATAGTTVY GAFDP IQEIA DICEKYNLWL HVDAAWGGGL LMSRKHRHKL NGIERANSVT WNP HKMMGVL LQCSAILVKE KGILQGCNQM CAGYLFQPK QYDVS YDTGD KAIQCGRHVD IFKFWLMWKA KGTGVGFENQI NKCLELAEYL YAKIKNREEF EMVFNGEPEH TNVCFWYIPQ SLRGVPDSPQ RREKLHKVAP KIKALMMESG TTMVGYQPQG DKANFFRMVI SNPAATQSDI DFLIEEIERL GQDL
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GAD1 recombinant protein	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	58331246
NCBI GeneID	2571
NCBI Accession #	NP_000808.2
NCBI GenBank Nucleotide #	NM_000817.2
UniProt Accession #	Q99259; Q49AK1; Q53TQ7; Q9BU91; Q9UHH4
Molecular Weight	47,440 Da
NCBI Official Full Name	glutamate decarboxylase 1 isoform GAD67
NCBI Official Synonym Full Names	glutamate decarboxylase 1
NCBI Official Symbol	GAD1
NCBI Official Synonym Symbols	GAD; SCP; CPSQ1
NCBI Protein Information	glutamate decarboxylase 1
UniProt Protein Name	Glutamate decarboxylase 1
UniProt Gene Name	GAD1
UniProt Synonym Gene Names	GAD; GAD67; GAD-67

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/gad1-recombinant-protein-e-coli/116693>