

Datasheet for ABIN7596375
GAD Protein (AA 1-594) (His tag)



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Overview

Quantity:	500 µg
Target:	GAD (GAD1)
Protein Characteristics:	AA 1-594
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAD protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MASSTPS SSATSSNAGA DPNTTNLRPT TYDTWCGVAH GCTRKLGLKI CGFLQRTNSL EEKSRLVSAF KERQSSKNLL SCENSDRDAR FRRTETDFSN LFARDLLPAK NGEEQTVQFL LEVVDILLNY VRKTFDRSTK VLDFHHPHQL LEGMEGFNLE LSDHPESLEQ ILVDCRDTLK YGVRTGHPRF FNQLSTGLDI IGLAGEWLTS TANTNMFTYE IAPVFVLMEQ ITLKKMREIV GWSSKDGDGI FSPGGAISNM YSIMAARYKY FPEVKTKGMA AVPKLVLFES EQSHYSIKKA GAALGFSTDN VILIKCNERG KIIPADFEAK ILEAKQKGYV PFYVNATAGT TVYGAFDPIQ EIADICEKYN LWLHVDAAWG GLLMSRKHR HKLNGIERAN SVTWNPHKMM GVLLQCSAIL VKEKGILQGC NQMCAGYLFQ PDKQYDVSVD TGDKAIQCGR HVDIFKFWLM WKAKGTVGFE NQINKCLELA EYLYAKIKNR EEFEMVFNGE PEHTNVCFWY IPQSLRGVPD SPQRREKLHK VAPKIKALMM ESGTTMVGYY PQGDKANFFR MVISNPAATQ SDIDFLIEEI ERLGQDL
Purity:	> 80% by SDS-PAGE

Target Details

Target:	GAD (GAD1)
Alternative Name:	GAD1/GAD67 (GAD1 Products)
Background:	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 protein may also play a role in the stiff man syndrome. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Recombinant human GAD1 protein, fused to His-tag at N-terminus, was expressed in E. coli.
Molecular Weight:	69.3 kDa (617aa)
NCBI Accession:	NP_000808

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.