Datasheet for ABIN5853654

# GAD Protein (AA 1-224) (His tag)

1 Image

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## Overview

| | |
|---|---|
| Quantity: | 50 µg |
| Target: | GAD (GAD1) |
| Protein Characteristics: | AA 1-224 |
| 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

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|---|---|
| Sequence: | MGSSHHHHHH SSGLVPRGSH MGSMASSTPS SSATSSNAGA DPNTTNLRPT TYDTWCGVAH GCTRKLGLKI CGFLQRTNSL EEKSRLVSAF KERQSSKNLL SCENSDRDAR FRRTETDFSN LFARDLLPAK NGEEQTVQFL LEVVDILLNY VRKTFDRSTK VLDFHHPHQL LEGMEGFNLE LSDHPESLEQ ILVDCRDTLK YGVRTGHPRF FNQLSTGLDI IGLAGEWLTS TANTNMPSDM RECWLLR |
| Purity: | > 85 % by SDS - PAGE |

## Target Details

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| Target: | GAD (GAD1) |
| Alternative Name: | GAD1 (GAD1 Products) |
| Background: | GAD1 is one of several forms of glutamic acid decarboxylase, identified as a major autoantigen |

## Target Details

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|---|---|
| | in insulin-dependent diabetes. It 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 protien 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. Recombinant human GAD1 protein, fused to His-tag at N-terminus, was expressed in E.coli . |
| Molecular Weight: | 27.7 kDa (247 aa) |
| NCBI Accession: | NP_038473 |
| UniProt: | Q99259 |

## Application Details

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

## Handling

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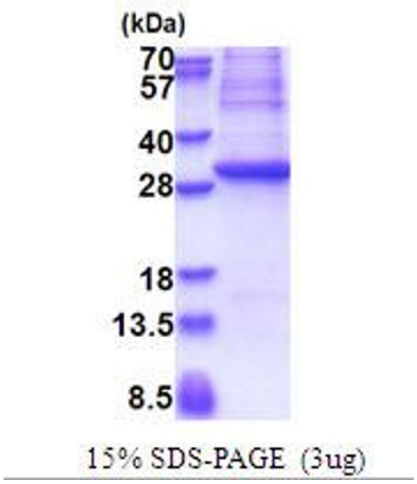
| Format: | Liquid |
| Concentration: | 0.5 mg/mL |
| Buffer: | Liquid. In 20 mM Tris-HCl buffer ( pH 8.0) containing 10 % glycerol, 0.4M urea |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |




**SDS-PAGE**

**Image 1.**