# Recombinant Mouse Gad1 protein, His & S-tagged

**Cat. No.** Gad1-8148M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse Gad1 aa. (Met1~Leu97 (Accession # P48318) ) fused with N-terminal His & S tag was produced in E. coli cells. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | Met1~Leu97 |
| **Description** | The protein encoded by this gene is an enzyme that catalyzes the production of gamma-aminobutyric acid from L-glutamic acid. Alternative splicing of this gene results in two products, the predominant 67 kDa isoform and a smaller 25 kDa isoform. The smaller isoform is not thought to retain catalytic activity. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 16.4kDa |
| **Endotoxin** | <1.0EU per 1ug (determined by the LAL method) |
| **Purity** | >95% |
| **Characteristic** | The isoelectric point is 6.7. |
| **Applications** | SDS-PAGE; WB; ELISA; IP |

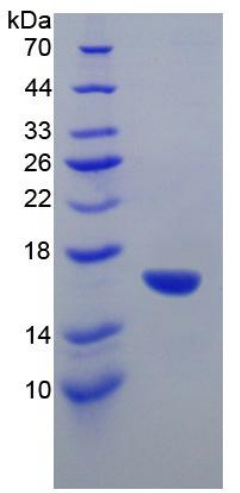
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Stability** | The thermal stability is described by the loss rate of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein 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. |
| **Storage Buffer** | Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative. |
| **Reconstitution** | Reconstitute in ddH2O. |

## GENE INFORMATION

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| **Gene Name** | Gad1 glutamate decarboxylase 1 [ Mus musculus (house mouse) ] |
| **Official Symbol** | Gad1 |
| **Synonyms** | EP10; Gad-1; 67 kDa glutamic acid decarboxylase; glutamate decarboxylase 67 kDa isoform; glutamic acid decarboxylase 1; glutamate decarboxylase 1 |
| **Gene ID** | 14415 |
| **mRNA Refseq** | NM_001312900.1 |
| **Protein Refseq** | NP_001299829.1 |
| **UniProt ID** | P48318 |

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| **SDS-PAGE** | <br>15% SDS-PAGE |

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