

OriGene Technologies, Inc.

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Product datasheet for PH307226

GAD67 (GAD1) (NM_000817) Human Mass Spec Standard

Product data:

| Product Type: | Mass Spec Standards | |
|--|--|--|
| Description: | GAD1 MS Standard C13 and N15-labeled recombinant protein (NP_000808) | |
| Species: | Human | |
| Expression Host: | HEK293 | |
| Expression cDNA Clone or AA Sequence: | RC207226 | |
| Predicted MW: | 66.9 kDa | |
| Protein Sequence: | <pre>>RC207226 protein sequence Red=Cloning site Green=Tags(s)</pre> | |
| | MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEKSRLVSAFKER QSSKNLLSCENSDRDARFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLD FHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPRFFNQLSTGLDIIGLAGEWLTSTAN TNMFTYEIAPVFVLMEQITLKKMREIVGWSSKDGDGIFSPGGAISNMYSIMAARYKYFPEVKTKGMAAVP KLVLFTSEQSRYSIKKAGAALGFGTDNVILIKCNERGEIIPADFEAKILEAKQKGYVPFYVNATAGTTVY GAFDPIQEIADICEKYNLWLHVDAAWGGGLLMSRKHRHKLNGIERANSVTWNPHKMMGVLLQCSAILVKE KGILQGCNQMCAGYLFQPDKQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTVGFENQINKCLELAEYL YAKIKNREEFEMVFNGEPEHTNVCFWYIPQSLRGVPDSPQRREKLHKVAPKIKALMMESGTTMVGYQPQG DKANFFRMVISNPAATQSDIDFLIEEIERLGQDL | |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV | |
| Tag: | C-Myc/DDK | |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining | |
| Concentration: | >0.05 μg/μL as determined by microplate BCA method | |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine | |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 | |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. | |
| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. | |
| RefSeq: | <u>NP 000808</u> | |
| RefSeq Size: | 3488 | |
| RefSeq ORF: | 1782 | |



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| | GAD67 (GAD1) (NM_000817) Human Mass Spec Standard – PH307226 |
|---|---|
| Synonyms: | CPSQ1; DEE89; GAD; SCP |
| Locus ID: | 2571 |
| UniProt ID: | <u>Q99259, A0A0S2Z3V5, Q8IVA8</u> |
| Cytogenetics: | 2q31.1 |
| Summary: This gene encodes one of several forms of glutamic acid decarboxylase, identif autoantigen in insulin-dependent diabetes. The enzyme encoded is responsible the production of gamma-aminobutyric acid from L-glutamic acid. A pathogeni enzyme has been identified in the human pancreas since it has been identified autoantigen and an autoreactive T cell target in insulin-dependent diabetes. The also play a role in the stiff man syndrome. Deficiency in this enzyme has been esult products, the predominant 67-kD form and a less-frequent 25-kD form. [provide Jul 2008] | |
| Protein Families | : Druggable Genome |
| Protein Pathway | /s: Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes mellitus |

Product images:

| 116 — | |
|---------------------|---|
| 66 — | _ |
| 45 — | |
| 35 — | |
| 25 — | |
| 18 <u>—</u> 14 — | |

Coomassie blue staining of purified GAD1 protein (Cat# [TP307226]). The protein was produced from HEK293T cells transfected with GAD1 cDNA clone (Cat# [RC207226]) using MegaTran 2.0 (Cat# [TT210002]).

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