

## Product datasheet for PH325984

### GAD65 (GAD2) (NM\_001134366) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GAD2 MS Standard C13 and N15-labeled recombinant protein (NP_001127838)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225984
Predicted MW:	65.4 kDa
Protein Sequence:	>RC225984 protein sequence Red=Cloning site Green=Tags(s)

MASPGSGFWSFGSEDSGSDSENPGTARAWCQVAQKFTGGIGNKLCALLYGDAEKPAESGGSQPPRAARK  
AACACDQKPCSCSKVDVNYAFLHATDLLPACDGERPTLAFLQDVMNILLQYVVKSFDRSTKVIDFHYPNE  
LLQEYNWELADQPQNLEEILMHCQTTLKYAIKTGHPRYFNQLSTGLDMVGLAADWLTSTANTNMFTYEIA  
PVFVLLLEVYTLKMKREIIGWPGGSGDGI FSPGGAISNMYAMMIARFKMFPEVKEKGMAALPRLIAFTSEH  
SHFSLKKGAAALGIGTDSVILIKCDERGMIPSDLERRILEAKQKGFVPFLVSATAGTTVYGAFDPLLAV  
ADICKKYKIWMHVDAAWGGGLMSRKHKWKLSGVERANSVTWNPHKMMGVPLQCSALLVREEGLMQNCNQ  
MHASYLFQQDKHYDL SYDTGDKALQCGRHVDVFKLWLMWRAKGTTFEAHVDKCLELAEYLYNI IKNREG  
YEMVFDGKQPHTNVCFWYIPPSLRTL EDNEERMSRLSKVAPVIKARMEYGTMMVSYQPLGDKVNF FRMV  
ISNPAATHQDIDFLIEEIERLGQDL

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	50 ug/ml as determined by BCA
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	100 mM glycine, 25 mM Tris-HCl, pH 7.3. Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001127838</u>
RefSeq Size:	2419
RefSeq ORF:	1755
Synonyms:	GAD65



[View online »](#)

Locus ID: 2572

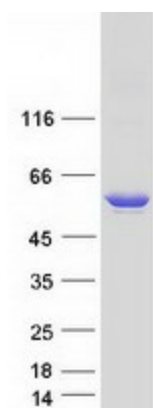
Cytogenetics: 10p12.1

**Summary:** 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 autoantibody and an autoreactive T cell target in insulin-dependent diabetes. This gene may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Oct 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, beta-Alanine metabolism, Butanoate metabolism, Metabolic pathways, Taurine and hypotaurine metabolism, Type I diabetes mellitus

### Product images:



Coomassie blue staining of purified GAD2 protein (Cat# [TP325984]). The protein was produced from HEK293T cells transfected with GAD2 cDNA clone (Cat# [RC225984]) using MegaTran 2.0 (Cat# [TT210002]).