

Datasheet for ABIN7320201

GAD65 Protein (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	GAD65 (GAD2)
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAD65 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse GAD65/GAD2/GAD-2 Protein (His & GST Tag)
Sequence:	Met 1-Leu 585
Characteristics:	A DNA sequence encoding full length of mouse GAD2 (NP_032104.2) (Met 1-Leu 585) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 92 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	GAD65 (GAD2)
Alternative Name:	GAD65/GAD2/GAD-2 (GAD2 Products)
Background:	Background: Glutamate decarboxylase 2, also known as glutamate decarboxylase 65 kDa isoform, 65 kDa glutamic acid decarboxylase, GAD2 and GAD65, is a member of the group II decarboxylase family. GAD2 is identified as a major autoantigen in insulin-dependent diabetes.

Target Details

GAD2 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. GAD2 may also play a role in the stiff man syndrome. GAD2 is implicated in the formation of the gamma-aminobutyric acid (GABA), a neurotransmitter involved in the regulation of food intake. GABA is synthesized in brain by two isoforms of glutamic acid decarboxylase (Gad), GAD1 and GAD2. GAD1 provides most of the GABA in brain, but GAD2 can be rapidly activated in times of high GABA demand. Mice lacking GAD2 are viable whereas deletion of GAD1 is lethal. Deletion of GAD2 increased ethanol palatability and intake and slightly reduced the severity of ethanol-induced withdrawal. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

Synonym: 6330404F12Rik;GAD(65);Gad-2;GAD65

Molecular Weight: 93 kDa

NCBI Accession: [NP_032104](#)

Application Details

Restrictions: For Research Use only

Handling

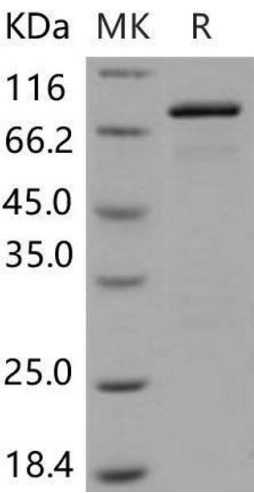
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM GSH, 3 mM DTT, 10 % glycerol, pH 8.0

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.