

## GAD2/GAD65 Protein, Human (sf9, GST)

Cat. No.:	HY-P75179
Synonyms:	Glutamate decarboxylase 2; GAD-65; GAD2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q05329 (M1-L585)
Gene ID:	2572
Molecular Weight:	Approximately 92.6 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 200 mM Tris, 150mM NaCl, 10% Glycerol, 1mM GSH, pH8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

#### Background

The GAD2, also known as GAD65 (Glutamate Decarboxylase 2), protein is an enzyme that plays a crucial role in neurotransmitter regulation by catalyzing the conversion of glutamate to gamma-aminobutyric acid (GABA). GAD2/GAD65 is a major isoform of glutamate decarboxylase, and its enzymatic activity is vital for maintaining the balance between excitatory and inhibitory neurotransmission in the central nervous system. GABA serves as the primary inhibitory neurotransmitter, and its synthesis by GAD2/GAD65 contributes to the modulation of neuronal excitability. Dysregulation of GAD2 activity has been implicated in various neurological disorders, underscoring the significance of this enzyme in neural function and highlighting its potential as a therapeutic target.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA