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## Product Data Sheet

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Product Name: GAD2 Human

Cat. No.: GP21651

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9 insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glutamate Decarboxylase 2 (Pancreatic Islets And Brain; 65kDa); Glutamate Decarboxylase 65 KDa Isoform; 65 KDa Glutamic Acid Decarboxylase; EC 4.1.1.15; GAD-65; GAD65; Glutamate Decarboxylase 2 (Pancreatic Islets And Brain; 65kD); Glutamate Decarboxylase-2 (Pancreas); EC 4.1.1; GAD2.		
Formulation	GAD2 protein solution is supplied in 16mM HEPES buffer pH-7.5, 250mM NaCl, 0.016mM Pyridoxal-5P-Phosphate, 0.16% Triton x-100 and 20% glycerol.		

**Introduction**

Glutamate Decarboxylase 2 (GAD2) is one of several forms of glutamic acid decarboxylase, identified as a main autoantigen in type II diabetes. The GAD2 enzyme is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for the GAD2 enzyme has been characterized in the human pancreas since it has been identified as an autoantibody and an autoreactive T cell target in type II diabetes. GAD2 gene may also have a role in the stiff man syndrome. In addition, GAD2 catalyzes the production of GABA.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

**Background**

Recombinant Human GAD2 produced in SF9 is a glycosylated, polypeptide chain having a calculated molecular mass of 66,234 Dalton. GAD2 is expressed with a 6xHis tag at N-terminus and purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA