
Product Data Sheet

Product Name: GAD2 Human, Biotin
Cat. No.: GP21652
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 Human biotin protein solution is supplied in 16mM HEPES buffer pH-7.5, 250mM NaCl, 0.016mM Pyridoxal-5'-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 insulin-dependent 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 insulin-dependent 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 biotinylated, glycosylated, polypeptide chain having a calculated molecular mass of 66kDa. 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.

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