

Glutamate Decarboxylase 65 kDa (GAD65; ng)

Antigen Specification

Product Number: 31900

Description:

Human glutamate decarboxylase 65 kDa; *new generation* (GAD65; ng) protein. Recombinant antigen for in vitro research and manufacturing use only.

Immunological function:

Binds IgG-type human auto-antibodies. Auto-antibodies to GAD65 recognize conformation-dependent epitopes.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

Full-length cDNA coding for human GAD65 fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with anti-GAD65 autoantibody-positive patient sample.

Calculated molecular weight:

66 kDa

Calculated isoelectric point:

pH 6.6

Immunological tests/Functionality:

Standard ELISA test (checker-board analysis of positive/negative samples). Test carried out without drying of GAD65-coated plates (see below).

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH, 0.05% Tergitol to maintain solubility of this hydrophobic enzyme and 20% glycerol as cryoprotective agent. Presence of the coenzyme pyridoxal-5'-phosphate is recommended. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.35-0.6 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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