

## Glutamate Decarboxylase 65 kDa (GAD65)

### Antigen Specification

**Product Number: 13800**

**Description:**

Human glutamate decarboxylase 65 kDa (GAD65) protein. Recombinant antigen for research use or manufacturing 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, 0.16% Triton X-100 to maintain solubility of this hydrophobic enzyme and 20% glycerol as cryoprotective agent. Presence of the coenzyme pyridoxal phosphate is recommended. Storage conditions:  $-70^{\circ}\text{C}$  or below. Repeated freeze/thaw cycles should be avoided.

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