

Gly m 5.0101

Allergen Specification

Product Number: 50600

Description:

Glycine max (*Glycine hispida*) Gly m 5.0101, also known as α -chain of β -conglycinin. Recombinant allergen for research use or manufacturing only.

Immunological function:

Binds IgE-type human antibodies.

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 Gly m 5.0101 fused to a deca-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with human sera.

Calculated molecular weight:

70,586 Dalton

Calculated isoelectric point:

pH 5.28

Molar extinction coefficient:

35090; A_{280} (1 mg/ml) = 0.497

Endotoxin content:

Tested by LAL (Limulus Amoebocyte Lysate) chromogenic endotoxin assay.

Immunological tests/Functionality:

Immunodot test with positive/negative sera panels.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: ionic strength around 100 mM, neutral to slightly alkaline pH and 6 M urea. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

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