

## Gly m 5.0101

### Allergen Specification

**Product Number: 50600**

**Description:**

*Glycine max (Glycine hispida)* Gly m 5.0101, also known as  $\alpha$ -chain of  $\beta$ -conglycinin.  
Recombinant allergen for in vitro research and manufacturing use 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 patient sample.

**Calculated molecular weight:**

71 kDa

**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 analyses with positive/negative samples.

**Recommended buffer/storage and handling conditions:**

Recommendations for storage buffer: 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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