

Art v 1.0101

Allergen Specification

Product Number: 51000

Description:

Artemisia vulgaris Art v 1.0101, also known as defensin-like protein 1. 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 Art v 1.0101 fused to a penta-histidine purification tag.

Biochemical tests:

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

Calculated molecular weight:

11 kDa

Calculated isoelectric point:

pH 8.18

Molar extinction coefficient:

8980; A_{280} (1 mg/mL) = 0.782

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 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below. Repeated freeze/thaw cycles should be avoided.

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