

Native Stinging nettle *Urtica dioica* Lectin (UDA)

Cat. No. UDA-742S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Stinging nettle <i>Urtica dioica</i> Lectin (UDA) - Pure Blood Group Specificity: Non-specific Preferred Sugar Specificity: N-Acetylglucosamine Inhibiting or Eluting Sugar: Oligomers of $\beta(1,4)$ - linked N-Acetylglucosamine Divalent Ions: Zn⁺⁺ Hazardous Shipping: Non-hazardous
Species	Stinging nettle
Source	Stinging nettle
Description	Affinity purified <i>Urtica dioica</i> agglutinin (UDA) is isolated from the rhizome of the stinging nettle. UDA differs from other known plant lectins with its molecular structure composed of only a single polypeptide chain, in contrast to other lectins composed of two subunits. It is composed of 86-amino acid residues and has a molecular weight of 8,500. It possesses extremely low specific agglutination activity regardless of blood type and has a carbohydrate specificity for GlcNAc. UDA is composed of several isoforms and has only homology to the chitin-binding domains of other proteins, specifically WGA. It is stable as it retains its activity even when subjected to acid conditions of pH 1.0, or heated to 80 C for up to 15 minutes. UDA is a T cell mitogen distinguishable from classical T cell lectin mitogens by its ability to discriminate a particular population of CD4⁺ and CD8⁺ T cells, as well as its capacity to induce an original pattern of T cell activation and cytokine production. T cell proliferation induced by UDA is dependent on MHC class II molecules but is not MHC restricted. UDA

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binds to specific carbohydrate structures present on class II molecules. It has been proposed that this lectin is a superantigen and could provide a useful probe for the analysis of T cell activation by superantigens. This lectin has also been shown to possess both antifungal and insecticidal activities.

Form	Lyophilized
Molecular Mass	8.5 kDa
Storage	At -20 centigrade.

GENE INFORMATION

Official Symbol	UDA
Synonyms	Urtica dioica Lectin; UDA

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