Native Gorse Ulex europaeus Lectin (UEA II)

Cat. No. UEA II-738G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Gorse Ulex europaeus Lectin (UEA II) - Pure Blood Group Specificity: O>A3 Preferred Sugar Specificity: Oligomers of β(1,4) - linked N-Acetylglucosamine Inhibiting or Eluting Sugar: GlcNAc β(1,4) GlcNAc Divalent Ions: Ca++, Mn++, Zn++ Hazardous Shipping: Non-hazardous Appearance Color: White to off-white
Species	Gorse
Source	Gorse
Description	Affinity purified Ulex europaeus agglutinin (UEA II) is isolated from gorse seeds and separated from crude extract. This lectin is a glycoprotein that consists of four 24,000 Da monomer subunits that require Ca2+ for binding to its ligands through carbohydrate recognition domain. It is specific for di-N-acetylchitobiose, an oligomer of GlcNAc. The monosaccharide GlcNAc is not an inhibitor of the lectin activity. UEA II has no mitogenic activity and agglutinates type O erythrocytes with greater interest than type A3 erythrocytes. Addition of EDTA eliminates agglutinating activity. Agglutinating activity can be recovered with the addition of calcium. UEA II is a potent inhibitor of the lectin complement pathway following endothelial oxidative stress. The molecular mechanism of UEA II-induced inhibition of the lectin complement pathway appears to be through competition for a common binding site on the endothelial cell and not at the level of mannose-binding lectin (MBL) inhibition.

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Form	Lyophilized Powder
Molecular Mass	96 kDa
Purity	Affinity purified
Storage	At -20 centigrade.

GENE INFORMATION

Official Symbol	UEA II
Synonyms	Ulex europaeus Lectin; UEA II

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