

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 $\beta(1,4)$ - linked N-Acetylglucosamine
 Inhibiting or Eluting Sugar: GlcNAc $\beta(1,4)$ 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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 45-1 Ramsey Road, Shirley, NY 11967, USA

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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