Active Native Spindle tree Euonymus europaeus Lectin (EEL/EEA), Cy5-Conjugated

Cat. No. EEL/EEA-211S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Spindle tree Euonymus europaeus Lectin (EEL/EEA) - Cy5 Blood Group Specificity: Non-specific Preferred Sugar Specificity: Galα3Gal Inhibiting or Eluting Sugar: Lactose Divalent Ions: Ca++, Zn++ Excitation: 650 nm Emission: 670 nm Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous Fluorescence: Red Carbohydrate Specificity: Galα3Gal, high mannose N-type glycans
Species	Spindle tree
Source	Spindle tree
Description	Euonymus europaeus lectin or agglutinin (EEL/EEA) is affinity purified and is a homodimer consisting of subunits of 17 kDa linked by disulfide bonds. EEL consists of six closely related lectins (isoforms). Previous reports of higher molecular weight and overestimated carbohydrate percentage are attributed to lectin-glycoprotein complexes and not the Euonymus europaeus lectin itself. This lectin is characteristic of its erythrocyte agglutinating properties and specificity for blood groups B and H. It has a stronger binding of the B oligosaccharide with higher affinity for B-type II in

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	comparison to H structures with Galα1,3 structures. Conversely, it has also been reported that EEL has preferential binding to H blood group-related carbohydrates over the B bloof group due to similarities in the β-trefoil fold found in EEL and ricin B-like lectins. EEL's general pattern allows it to interact with both α-fucose residues on B and H blood groups as well as high mannose N-type glycans. This lectin binds to endothelial cells from human and non-human sources and recognizes carbohydrate structures on the surface of stimulated murine peritoneal lymphoid cells. EEL also has applications as a endothelial/epithelial marker in canine tissues and has been studied in Kashin-Beck disease. The excitation wavelength required for Cy5 to fluoresce is high enough to avoid overlap with most other fluorochromes, making it useful for dual-labeling experiments. Because of this high excitation, there is typically less background from autofluorescence of biological specimens. This product comes in a stabilized liquid form.
Form	Liquid
Bio-activity	50 mg/ml will agglutinate human A2 erythrocytes.
Stability	Shelf Life: 1 year
Storage	Store frozen at -20 centigrade in amber vials or covered with foil in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at 2-8 centigrade for short term use. Clarify by centrifugation, if needed.
Concentration	1 mg/mL

GENE INFORMATION

Official Symbol	EEL/EEA

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Synonyms	Euonymus europaeus Lectin; EEL/EEA

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