

Euonymus europaeus Lectin (EEL/EEA) - Pure

Cat PL00142

Size 2 mg/5 mg/10 mg

Sugar Specificity

Gal α 3Gal

Description

europaeus Euonymus lectin (EEL/EEA) is an affinity-purified homologous dimer consisting of a 17kda subunit linked by a disulfide bond. EEL consists of six closely related lectins (isomers). Previously reported higher molecular weights and overestimated carbohydrate percentages are attributed to the lectin-glycoprotein complex, rather than Euonymus lectins themselves. The lectin has erythrocyte agglutination properties and specificity for B and H blood types, and it binds more strongly to B oligosaccharides and has a higher affinity for B type II than the H structure with the gal α 1,3 structure. Conversely, it has also been reported that EEL preferentially binds to carbohydrates associated with blood group H over blood group B due to the similarity of the β -triloba fold in EEL and ricin B-like lectins. The general pattern of EEL allows it to interact with α -focusing 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 mouse peritoneal lymphoid cells. EEL has also been used as an endothelial/epithelial marker in canine tissues and has been studied in Kashin-beck disease.

Abbreviation

EEL/EEA

Material Source

Spindle tree

Conjugate

None

Purity

High Purity Grade

Shelf Life

2 years

Blood Group Specificity

O (-SA), B

Sugar Specificity

Gal α 3Gal

Inhibiting or Eluting Sugar

Lactose

Divalent Ions

Ca $^{++}$, Zn $^{++}$

Mitogenic Activity

Yes

Format

Lyophilized

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Euonymus europaeus Lectin (EEL/EEA) - Pure

Cat *PL00142*

Size *2 mg/5 mg/10 mg*

Storage

-20°C

Molecular Weight

140 kDa

Hazardous Shipping

Non-hazardous

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