

Artocarpus integrifolia Lectin (AIA) - Pure

Cat PL00110

Size 10 mg/5 mg

Sugar Specificity

Gal β 3GalNAc

Description

A tetramer double chain structure composed of 4 identical propolymers is obtained by affinity chromatography with an isoelectric pH of 7.8. The lectin is specific to blood type O (+SA) and t. Jacalin is considered a galactose-specific lectin that can be eluted with galactose or glycodisaccharide. Jacalin's post-translational proteolytic modification gives lectin a new carbohydrate binding site involving the N end of the α -chain. The structure of this protein explains its carbohydrate binding specificity for the t antigen disaccharide gal β 1,3galnac. Effective inhibitors of jacalin include D-galactose, β -Met-Gal and 2-deoxy- α -d-galactose. This product is freeze-dried in stable form.

Abbreviation

AIA

Material Source

Jacalin

Conjugate

None

Purity

Affinity purified

Shelf Life

2 years

Blood Group Specificity

O (+SA), T antigen

Sugar Specificity

Gal β 3GalNAc

Inhibiting or Eluting Sugar

Galactose or Melibiose

Divalent Ions

None Required

Mitogenic Activity

Yes

Format

Lyophilized

Storage

-20°C

Molecular Weight

66 kDa

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Hazardous Shipping

Non-hazardous

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