

Artocarpus integrifolia Lectin (AIA) - Colloidal Gold

Cat PL00103

Size 1 mL

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 to the t antigen disaccharide Gal β 1,3 galnac. Effective inhibitors of jacalin include D-galactose, β -Met-Gal, and 2-deoxy- α -D-galactose. Colloidal gold can be used to visualize the location of specific sugar parts and examine the distribution of plasma membrane glycoproteins based on the binding pattern of tree fruit lectins. Colloidal gold labeled lectins can be observed by electron microscopy.

Abbreviation

AIA

Material Source

Jacalin

Conjugate

Colloidal Gold

Concentration

1 mg/mL

Purity

High Purity Grade

Shelf Life

1 year

Blood Group Specificity

Non-specific

Sugar Specificity

Gal β 3GalNAc

Inhibiting or Eluting Sugar

Galactose or Melibiose

Divalent Ions

None Required

Mitogenic Activity

Yes

Format

Liquid

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Artocarpus integrifolia Lectin (AIA) - Colloidal Gold



Cat *PL00103*

Size *1 mL*

Storage

2-8°C

Excitation

550 nm

Emission

570 nm

Hazardous Shipping

Non-hazardous

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