

Artocarpus integrifolia Lectin (AIA) - Cy3

Cat PL00104

Size 1 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. Cy3 can show the binding pattern of tree lectin in cell imaging and flow cytometry. Cy3 is more light resistant than many other fluorophores and can be seen with TRITC filter groups. It is often used in combination with green fluorescent dyes for double labeling.

Abbreviation

AIA

Material Source

Jacalin

Conjugate

Cyanine 3 (Cy3)

Concentration

1 mg/mL

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

Storage

-20°C

Excitation

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Artocarpus integrifolia Lectin (AIA) - Cy3

Cat PL00104

Size 1 mg

550 nm

Emission

570 nm

Fluorescence

Orange

Hazardous Shipping

Non-hazardous

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY
