Artocarpus integrifolia Lectin (AIA) - Cy5

CD BioSciences
Plant Protein

Cat *PL00105*

Size *1 mg*

Sugar Specificity
Galβ3GalNAc

Description
Jacalin agglutinin (AIA) is a tetramer double-stranded structure consisting of four identical propolymers 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 beta 1,3 galnac. Effective inhibitors of jacalin include D-galactose, β-Met-Gal, and 2-deoxy-α-D-galactose. When Cy5 binds to Artocarpus integrifolia (Jacalin) Lectin (AIA), the binding pattern of this lectin can be shown by cell imaging and flow cytometry. The excitation wavelength required for Cy5 fluorescence is high enough to avoid overlapping with most other fluorescent dyes, making it useful for double-labeling experiments. Because of this high excitation, the autofluorescent background of biological specimens is usually less.

Abbreviation
AIA

Material Source
Jacalin

Conjugate
Cyanine 5 (Cy5)

Concentration
1 mg/mL

Shelf Life
1 year

Blood Group Specificity
Non-specific

Sugar Specificity
Galβ3GalNAc

Inhibiting or Eluting Sugar
Galactose or Melibiose

Divalent Ions
None Required

Mitogenic Activity
Yes

Format
Liquid

Storage
2-8°C

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Artocarpus integrifolia Lectin (AIA) - Cy5

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Plant Protein

Cat *PL00105*

Size *1 mg*

Excitation
650 nm

Emission
670 nm

Fluorescence
Red

Hazardous Shipping
Non-hazardous

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