

Jacalin, Fluorescein

Cat PL00678

Size 5 mg

Sugar Specificity

Galactose

Description

Jacalin appears to bind only o-glucosid-linked oligosaccharides, preferring galactose (β -1,3) n-acetylgalactosamine structures. This structure (t antigen) is a peanut lectin (PNA) -bound oligosaccharide. However, unlike PNA, Jacalin can bind single or double bonded forms of this structure. This lectin has been used to purify human IgA. The specificity of this lectin also provides an opportunity to locate or isolate glycoproteins with oligosaccharide side chains that have O-glycoside connections. Fluorescein-labeled Jacalin has the right amount of fluorescent dye binding to provide the best staining properties for this lectin. This conjugated substance basically does not contain unconjugated fluorescent dyes. The excitation maximum is 495nm and the emission maximum is 515nm.

Conjugate

Fluorescein

Concentration

5 mg active conjugate/ml

Sugar Specificity

Galactose

Storage

2-8°C

Excitation

495-500 nm

Emission

514-521 nm

Fluorescence

Green

Application

Immunofluorescence, Glycobiology

Recommended dilution

The recommended concentration range for use is 5-20 μ g/ml.

Solution

10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl₂, 10 mM lactose, 10 mM Beta-Cyclodextrin

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