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DATURA STRAMONIUM LECTIN (DSL), FLUORESCEIN

SKU: FL-1181-2

DESCRIPTION

The carbohydrate binding site recognizes (β-1,4) linked *N*-acetylglucosamine oligomers, preferring chitobiose or chitotriose over a single *N*-acetylglucosamine residue. This lectin binds well in the acidic pH range but its affinity decreases above pH 8.0.

DSL also binds well to *N*-acetyllactosamine and oligomers containing repeating *N*-acetyllactosamine sequences. A branched pentasaccharide including two N-acetyllactosamine disaccharides linked to mannose (β-1,6) and (β-1,2) was reported to be the most potent inhibitor of agglutination.

Fluorescein labeled DSL has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorochromes. The excitation maximum is at 495 nm and the emission maximum is at 515 nm.

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SPECIFICATIONS

Molecular Weight	86
Color of Fluorescence	Green
Extinction Coefficient	0.6
Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2
Inhibiting or Eluting Sugar	Chitin Hydrolysate or Desialylated Fetuin
Maximum Emission	514-521 nm
Maximum Excitation	495-500 nm
Unit Size	2 mg
Storage Instructions	2-8°C
Sugar Specificity	Branching structures with polyLacNAc
Usage Summary	The recommended concentration range for use is 5-20 µg/ml.
Applications	Immunofluorescence, Glycobiology
Concentration	2 mg active conjugate/ml
Conjugate	Fluorescein

TECHNICAL INFORMATION

DSL contains two chains of 40 kDa and 46 kDa joined by disulfide bonds. This lectin is free of a reported 32 kDa contaminant protein.

Accompanying each fluorescent lectin is an analysis data sheet summarizing the results of our quality control tests and providing pertinent information on the product. All of these reagents are supplied as solutions preserved with sodium azide.

Inhibiting/Eluting Sugar: Chitin Hydrolysate

CITATIONS

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DOCUMENTS

- Lectins in Histochemistry, ELISA, and Western Blot Applications
- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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