



Datura Stramonium Lectin (DSL), Fluorescein

Product Images



Short 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*-acetylglucosamine and oligomers containing repeating *N*-acetylglucosamine sequences. A branched pentasaccharide including two *N*-acetylglucosamine 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.

Additional Information

Unit Size	2 mg
Applications	Immunofluorescence, Glycobiology
Recommended Usage	The recommended concentration range for use is 5-20 μ g/ml.
Recommended Storage	2-8°C
Maximum Excitation	495-500 nm
Maximum Emission	514-521 nm
Solution	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl ₂
Concentration	2 mg active conjugate/ml
Conjugate	Fluorescein
Color of Fluorescence	Green
Sugar Specificity	[GlcNAc]1-3, N-Acetylglucosamine

