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DATURA STRAMONIUM LECTIN (DSL), BIOTINYLATED

SKU: B-1185-2



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.

Biotinylated *Datura stramonium* lectin has an appropriate number of biotins bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated biotins and is preserved with sodium azide.

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SPECIFICATIONS

Molecular Weight	86
Extinction Coefficient	0.6
Formulation	10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM CaCl2.
Inhibiting or Eluting Sugar	Chitin Hydrolysate or Desialylated Fetuin
Unit Size	2 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	Branching structures with polyLacNAc
Usage Summary	For most applications, we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	2 mg active conjugate/ml
Conjugate	Biotinylated

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.

This biotinylated lectin is an ideal intermediate for examining glycoconjugates using the Biotin-Avidin/Streptavidin System. First the biotinylated lectin is added, followed by the VECTASTAIN ABC Reagent, Avidin D conjugate, or streptavidin derivative.

Inhibiting/Eluting Sugar: Chitin Hydrolysate

CITATIONS

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DOCUMENTS

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

GALLERY IMAGES



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