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DATURA STRAMONIUM LECTIN (DSL), UNCONJUGATED

SKU: L-1180-5



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.

SPECIFICATIONS

Molecular Weight	86
Extinction Coefficient	0.6
Inhibiting or Eluting Sugar	Chitin Hydrolysate or Desialylated Fetuin

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Unit Size	5 mg
Storage Instructions	2-8 °C; for long term storage, aliquots may be stored frozen or preserved with 0.08% sodium azide in the recommended buffer and stored at 2-8 °C
Sugar Specificity	Branching structures with polyLacNAc
Usage Summary	Though many buffers can be employed for reconstituting and diluting this lectin, 10 mM HEPES buffered saline, pH 8.5, 0.1 mM CaCl2is recommended. For preserving solutions stored at 4 ºC, 0.08% sodium azide can be used. Aggregation may occur with time if stored at concentrations greater than 2 mg/ml.
Applications	Glycobiology, Mitogenic Stimulation
Conjugate	Unconjugated

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.

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

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