



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 CaCl ₂ is recommended. For preserving solutions stored at 4 °C, 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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GALLERY IMAGES



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