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GALANTHUS NIVALIS LECTIN (GNL), BIOTINYLATED

SKU: B-1245-2



DESCRIPTION

Galanthus nivalis lectin, unlike most mannose-specific lectins, is not a metalloprotein and does not require Ca^{++} or Mn^{++} for binding.

Binding seems to be preferentially directed toward structures containing (α-1,3) mannose residues. Also in contrast to most mannose-binding lectins, GNL will not bind α-linked glucose. Reports indicate that this lectin binds rat and mouse IgM but not IgG. The only protein from human serum reported to bind to this lectin is α2-macroglobulin. GNL binds to many viral glycoproteins.

Biotinylated *Galanthus nivalis* 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	50
Extinction Coefficient	1.9
Formulation	10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM CaCl2.
Inhibiting or Eluting Sugar	a-methyl-mannoside
Unit Size	2 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	Terminal Manα1−6 and terminal Manα1−3
Usage Summary	For most applications, we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer. A precipitate may form during storage.This does not have a significant adverse effect on the product.If a precipitate forms upon long-term storage, warm to 37 ºC and centrifuge before use.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	2 mg/ml
Conjugate	Biotinylated

TECHNICAL INFORMATION

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: 100 mM – 200 mM α-methylmannoside

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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