



Galanthus Nivalis Lectin (GNL), Fluorescein

FL-1241-2

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Short 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 α 2-macroglobulin. GNL binds to many viral glycoproteins.

Fluorescein labeled *Galanthus nivalis* lectin 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 $\mu\text{g}/\text{ml}$.
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	Mannose

