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GRIFFONIA SIMPLICIFOLIA LECTIN I (GSL I) ISOLECTIN B4, FLUORESCEIN

SKU: FL-1201-.5



DESCRIPTION

GSL I-B_4 isolectin contains only the B subunits. It is a useful marker for endothelial cells from nonprimates such as mouse, rat, rabbit, and goat as well as a marker for non-peptidergic unmyelinated primary afferent neurons. This “B”-rich lectin preferentially agglutinates blood group B cells and is specific for α-galactose residues.

Fluorescein labeled GSL I-B_4 has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated fluorescein and is preserved with sodium azide.

- Excitation maximum = 495 nm
- Emission maximum = 515 nm
- Color = green

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SPECIFICATIONS

Molecular Weight	114
Color of Fluorescence	Green
Extinction Coefficient	1.4
Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2
Inhibiting or Eluting Sugar	Galactose
Maximum Emission	514-521 nm
Maximum Excitation	495-500 nm
Unit Size	0.5 mg
Storage Instructions	2-8°C
Sugar Specificity	Terminal αGal
Usage Summary	The recommended concentration range for use is 5-20 µg/ml.
Applications	Immunofluorescence, Glycobiology
Concentration	1 mg active conjugate/ml
Conjugate	Fluorescein

TECHNICAL INFORMATION

GSL I is a family of glycoproteins with molecular weights of approximately 114 kDa. There are two types of subunits, termed A and B, with slightly different molecular weights. These subunits combine to form tetrameric structures, resulting in five isolectins. The A -rich lectin preferentially agglutinates blood group A erythrocytes and thus appears to be specific for α-*N*-acetylgalactosamine residues, while the B -rich lectin preferentially agglutinates blood group B cells and is specific for α-galactose residues. Our GSL I is a mixture of the five isolectins. GSL I has been reported to bind several glycoproteins including laminin.

Accompanying each fluorescent lectin is an analysis data sheet summarizing the results of our quality control tests and providing pertinent information on the product. All of these reagents are supplied as solutions preserved with sodium azide.

Inhibiting Sugar: 500 mM galactose or 100 mM raffinose

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CITATIONS

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DOCUMENTS

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

GALLERY IMAGES



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