www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

GRIFFONIA SIMPLICIFOLIA LECTIN I (GSL I) ISOLECTIN B4, DYLIGHT 649

SKU: DL-1208-.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.

DyLight™ 649 GSL I-B_4 isolectin is produced by using special conjugation procedures to incorporate DyLight™ 649 into our affinity-purified lectin. This conjugate has an appropriate number of fluorochromes bound which provide the maximum fluorescence and optimum staining characteristics for this particular lectin. This reagent is supplied essentially free of unconjugated fluorochromes and inactive lectin.

- Excitation maximum: 646 nm
- emission maximum: 674 nm

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

• Color: Red

SPECIFICATIONS

Molecular Weight	114
Color of Fluorescence	Far Red
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	670 nm
Maximum Excitation	655 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. If a precipitate forms upon long-term storage, warm to 37 ºC.
Applications	Immunofluorescence, Glycobiology
Concentration	1 mg active conjugate/ml
Conjugate	DyLight 649

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.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

Inhibiting Sugar: 500 mM galactose or 100 mM raffinose

DOCUMENTS

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

GALLERY IMAGES



For research use only. Not intended for therapeutic or diagnostic use in animals or humans.