



# MAACKIA AMURENSIS LECTIN I (MAL I), FLUORESCIN

SKU: FL-1311-2



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## DESCRIPTION

*Maackia amurensis* lectin I binds gal ( $\beta$ -1,4) glcNAc but tolerates substitution of *N*-acetyllactosamine with sialic acid at the 3 position of galactose. However, MAL I does not appear to bind this structure when substitution with sialic acid is on the 6 position of galactose.

Fluorescein labeled *Maackia amurensis* 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.

## SPECIFICATIONS

<b>Molecular Weight</b>	130
<b>Color of Fluorescence</b>	Green

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<b>Extinction Coefficient</b>	1.4
<b>Formulation</b>	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide. 0.1 mM CaCl <sub>2</sub>
<b>Inhibiting or Eluting Sugar</b>	Lactose or Mucin
<b>Maximum Emission</b>	514-521 nm
<b>Maximum Excitation</b>	495-500 nm
<b>Unit Size</b>	2 mg
<b>Storage Instructions</b>	2-8°C
<b>Sugar Specificity</b>	Terminal 3-O sulfated Galactose on LacNAc, and terminal $\alpha$ 2,3-sialic acid on type 2 LacNAc
<b>Usage Summary</b>	The recommended concentration range for use is 5-20 $\mu$ g/ml.
<b>Applications</b>	Immunofluorescence, Glycobiology
<b>Concentration</b>	2 mg active conjugate/ml
<b>Conjugate</b>	Fluorescein

## TECHNICAL INFORMATION

This lectin is the leucoagglutinin or mitogenic isolectin from *Maackia* seeds.

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.

Geisler, C and Jarvis, D.L. Glycobiology, vol. 21, no. 8 pp. 988-993, 2011

Inhibiting Sugar: 200 mM lactose

## 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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