



# PISUM SATIVUM AGGLUTININ (PSA), BIOTINYLATED

**SKU:** B-1055-5



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## DESCRIPTION

The lectin has specificity toward  $\alpha$ -linked mannose-containing oligosaccharides, with an *N*-acetylchitobiose-linked  $\alpha$ -fucose residue included in the receptor sequence.

Biotinylated *Pisum sativum* agglutinin 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.

## SPECIFICATIONS

<b>Molecular Weight</b>	53
<b>Extinction Coefficient</b>	1.2
<b>Formulation</b>	10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.1 mM CaCl <sub>2</sub> , 0.01 mM MnCl <sub>2</sub> , 0.08% sodium azide

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<b>Inhibiting or Eluting Sugar</b>	Mixture of $\alpha$ -methyl-mannoside & $\alpha$ -methyl-glucoside
<b>Unit Size</b>	5 mg
<b>Storage Instructions</b>	2-8 °C; Store frozen for long term storage
<b>Sugar Specificity</b>	$\alpha$ 1,6-linked fucose
<b>Usage Summary</b>	For most applications we recommend a freshly prepared working solution of 5-20 $\mu$ g/ml in the below buffer.
<b>Applications</b>	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
<b>Concentration</b>	5 mg active conjugate/ml
<b>Conjugate</b>	Biotinylated

## TECHNICAL INFORMATION

*Pisum sativum* agglutinin is nearly identical in structure and carbohydrate specificity to *Lens culinaris* agglutinin. Calcium and manganese ions are required for activity. PSA has been used to fractionate cells, to isolate glycoproteins and glycopeptides, to distinguish between normal and virally transformed cells, as a T-cell mitogen, and as an inhibitor of allograft rejection.

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: mixture of 200 mM  $\alpha$ -methylmannoside/200 mM  $\alpha$ -methylglucoside

## CITATIONS



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## DOCUMENTS

- [Safety Data Sheet](#)
- [Lectins in Histochemistry, ELISA, and Western Blot Applications](#)

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- [Download CoA](#)
- [Datasheet](#)

## GALLERY IMAGES



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