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LENS CULINARIS AGGLUTININ (LCA), BIOTINYLATED

SKU: B-1045-5



DESCRIPTION

LCA recognizes sequences containing α-linked mannose residues but recognizes additional sugars as part of the receptor structure, giving it a narrower specificity than Con A. An α-linked fucose residue attached to the N-acetylchitobiose portion of the core oligosaccharide significantly enhances affinity. By exploiting this narrower specificity, glycoproteins and glycopeptides can be subfractionated with LCA after initial isolation with Con A.

Biotinylated *Lens culinaris* 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

Molecular Weight	50
Extinction Coefficient	1.25

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Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.1 mM CaCl2, 0.01 mM MnCl2, 0.08% sodium azide, 10 mM methyl-alpha-D-mannopyranoside.
Inhibiting or Eluting Sugar	Mixture of a-methyl-mannoside & a-methyl-glucoside
Unit Size	5 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	α1,6-linked fucose
Usage Summary	For most applications we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	5 mg active conjugate/ml
Conjugate	Biotinylated

TECHNICAL INFORMATION

Lens culinaris agglutinin is composed of four subunits – two of about 17 kDa and two of 8 kDa. LCA has been found to be one of the most effective agents in preventing skin allograft rejection in model systems. LCA has been used to purify numerous glycoproteins, including immunoglobulins, histocompatibility antigens, and α2-macroglobulin.

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 α-methylmannoside/200 mM α-methylglucoside

CITATIONS

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DOCUMENTS

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

GALLERY IMAGES



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