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

LENS CULINARIS AGGLUTININ (LCA), UNCONJUGATED

SKU: L-1040



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.

SPECIFICATIONS

Molecular Weight	50
Extinction Coefficient	1.25
Inhibiting or Eluting Sugar	Mixture of a-methyl-mannoside & a-methyl-glucoside
Unit Size	10 mg, 25 mg
Storage Instructions	2-8 °C

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

Sugar Specificity	α1,6-linked fucose
Usage Summary	Although many buffers can be employed for reconstituting and diluting this lectin, 10 mM HEPES buffered saline, pH 8.5, 0.1 mM CaCl2is recommended. For preserving solutions stored at 4 ºC, 0.08% sodium azide can be used.
Applications	Immunohistochemistry, Immunofluorescence
Conjugate	Unconjugated

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.

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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