

## Lens culinaris Lectin (LCA/LCH) – Pure

### Description:

Lens culinaris (Lentil) lectin (agglutinin) binds specifically to cells, subcellular particles, glycoconjugates and polysaccharides containing  $\alpha$ -linked mannose residues. By recognizing additional sugars as part of the receptor structure, LCA has a narrower specificity than Con A. By exploiting this narrower specificity, glycoproteins and glycopeptides can be sub-fractionated with LCA after initial isolation with Con A. LCA has been employed to separate lymphocyte populations, as a potent T-cell mitogen, and is one of the most effective agents in preventing skin allograft rejection in model systems. LCA is also used to purify numerous glycoproteins (including immunoglobulins, histocompatibility antigens,  $\alpha$ -macroglobulin, etc.) as well as to fractionate glycopeptides from a variety of glycoproteins and receptors.

### Specifications:

- **Source:** *Lens culinaris* (Lentil)
- **Molecular Weight:** 50 kDa
- **Activity:** 50-200  $\mu$ g/ml will agglutinate type O human erythrocytes. 2-5  $\mu$ g/ml will agglutinate neuraminidase treated cells.
- **Carbohydrate Specificity:**  $\alpha$ -Mannose
- **Isoelectric Point (pI):** 7.6-8.4
- **Inhibitory/Eluting Carbohydrate:**  $\alpha$ -Methylmannoside
- **Divalent Ions Required:**  $\text{Ca}^{++}$ ,  $\text{Mn}^{++}$

### Storage and Stability:

Store frozen at  $-20^{\circ}\text{C}$  in amber vials or covered with foil in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at  $2-8^{\circ}\text{C}$  for short term use.

### Other Related Products:

SKU	Item Name
20120007	Lens culinaris Lectin (LCA/LCH) Separopore® 4B
21761114	Lens culinaris Lectin (LCA/LCH) - Cy3
21761033	Lens culinaris Lectin (LCA/LCH) - FITC (Fluorescein)
21761034	Lens culinaris Lectin (LCA/LCH) - TRITC (Rhodamine)
21761035	Lens culinaris Lectin (LCA/LCH) - Texas Red

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