

Native Banana *Musa paradisiaca* Lectin (BanLec)

Cat. No. BanLec-657B **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Banana *Musa paradisiaca* Lectin (BanLec) - Pure
 Blood Group Specificity: Rabbit
 Preferred Sugar Specificity: Mannose
 Inhibiting or Eluting Sugar: α -Methylmannoside
 Divalent Ions: Zn⁺⁺
 Mitogenic Activity: Yes
 Hazardous Shipping: Non-hazardous

Species Banana

Source Banana

Description

A glucose/mannose-specific lectin (BanLec) was isolated from banana, *Musa paradisiaca*. BanLec is a dimeric protein that consists of two identical 15 kDa subunits, composed of 141 amino acid residues, and has an isoelectric point of pH 7.3. Studies have also shown that BanLec has two primary carbohydrate binding sites per subunit. BanLec is known to be a potential immunomodulatory molecule and has demonstrated to inhibit HIV-1 by binding directly to gp120 (HIV-1 envelope protein) and being able to block HIV-1 cellular entry. It has a potential anti-viral microbicide that could be used to prevent sexual transmission of HIV-1. BanLec has an activity dependent on metal ions (Ca²⁺, Mn²⁺, Mg²⁺) and exhibits a strong mitogenic activity towards murine T-cells. It is a stable glycoprotein that agglutinates rabbit erythrocytes. This product comes in a lyophilized form and is stored at -20 centigrade. Calcium, manganese, and magnesium ions are required for binding.

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Form	Lyophilized
Molecular Mass	30 kDa
Purity	Affinity purified
Applications	Glycobiology, Immunomodulation, Viral prevention studies
Storage	At -20 centigrade.

GENE INFORMATION

Official Symbol	BanLec
Synonyms	Musa paradisiaca Lectin; BanLec

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