

Concanavalin A (Con A) Solution (500X)

Introduction

Concanavalin A (Con A), derived from *Canavalia ensiformis* (Concanavalin), is a plant lectin protein ($M_w = 104$ kDa). At $pH \geq 7.0$, Con A exists as a homotetrameric structure consisting of four subunits with a molecular weight of 26 kDa. Under acidic conditions ($pH 4.5-5.5$), Con A dissociates into an activated dimer structure (52 kDa), and acetylation, succinylation, or other derivatives can also produce stable dimer structures. Each subunit binds a Ca^{2+} and a Mn^{2+} , contains a sugar-binding site, and when the metal ions bind to Con A, it can bind various glycoproteins, glycolipids and α -D-glucose and α -D-mannose moieties in sugars, which is suitable for carbohydrate research, glycoprotein purification, enzyme tagging, cell membrane research, cell agglutination, cell culture and cell typing studies.

This product is a ready-to-use aqueous buffer (500 X) for Con A, which can be used as a potent leukocytogen-promoting agent as an exogenous lectin. This reagent is intended for in vitro activation of human and mouse leukocytes.

Protocol

Use of cell stimulation reagents: Dilute the reagents into 1X, e.g., add 2 μ L of Con A to 1 mL of medium.

Note

1. The product (500X) is 1.25 mg/mL, ready-to-use reagent, sterile.
2. Composition: Sterile aqueous solution without sodium azide.
3. Storage: 12 months at $-20^{\circ}C$.
4. This product is for scientific research use only.

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