glycoMATRIX™

Phaseolus vulgaris Lectin (PHA-L) - Pure

Description:

Phaseolus vulgaris Lectin (PHA-L) is isolated from red kidney beans. It has a molecular weight of 126,000 and is made up of four subunits with an isoelectric point around pH 5.2. PHA-L was further purified based on a carbohydrate specificity for complex oligosaccharides and elutes from an affinity matrix with bovine thyroglobulin or acetic acid. PHA-L is known as leucoagglutinin and has high mitogenic and leucoagglutinating activity, and low erythroagglutinating activity. This lectin exhibits no agglutination with human erythrocytes. PHA-L binds to fetuin but does not precipitate this glycoprotein. PHA-L is strongly inhibited by trisaccharide Gal β(1,4)GlcNAcβ(1,2)Man, and although this structure is present in many glycoproteins, PHA-L does not react with all of them. This lectin reacts strongly with certain carcinoma cell lines of high metastatic potential and has been proposed as a probable therapeutic agent. It has shown potential to inhibit graft vs. host reaction in transplantation studies. This product comes in a lyophilized form and is stable for more than three years when stored below -20°C.

Specifications:

- **Source**: *Phaseolus vulgaris* (Kidney bean)
- **Activity**: Less than 0.5 ug /ml will agglutinate neuraminidase-treated human erythrocytes.
- **Carbohydrate Specificity**: Complex N-Glycans
- **Inhibitory Carbohydrate:** Gal β(1,4)GlcNAcβ(1,2)Man
- **Divalent Ions Required:** Ca^{2+}, Mn^{2+}

Storage and Stability:
Store frozen at -20°C in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at 2-8 °C for short term use.

Other Related Products:

SKU	Item Name
21761134-1	Phaseolus vulgaris Lectin (PHA-L) - Cy3
21761135-1	Phaseolus vulgaris Lectin (PHA-L) - Cy5
30330033-1	Phaseolus vulgaris Lectin (PHA-L) - FITC (Fluorescein)
30330034-1	Phaseolus vulgaris Lectin (PHA-L) - HRP (Horseradish Peroxidase)

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