Triticum vulgaris Lectin (WGA) - Separopore® 6B

CD BioSciences
Plant Protein

Cat *PL00408*

Size *25 mL*

Sugar Specificity
(GlcNAcβ4)n

Description
Wheat germ lectin (WGA) is an affinity-purified lectin from wheat that binds to non-enzymes of glycoproteins and glycolipid n-acetyl-D-glucosamine and sialic acid residues. This lectin protects common wheat from insects, yeast and bacteria. WGA consists of two subunits with a molecular weight of 36kda. It is an acidic protein with mitotic activity on lymphocytes. It can agglutinate red blood cells and most malignant cells. Similar to insulin, WGA increases the rate of glucose oxidation in isolated fat cells and can be used to isolate and isolate insulin receptors. A recent addition time study showed that when lectins are incubated with viruses and added to cells during infection, WGA inhibits SARS-CoV-2 infection by inhibiting replication. Data from the same study suggest that the mode of action is the interaction between WGA and the viral envelope, leading to neutralization of the virus. This may occur through highly glycosylated spike proteins. WGA has been used in oral squamous cell carcinoma staining techniques to detect the degree of cell cohesion. It has been shown to inhibit melanoma cell proliferation in a dose-dependent manner. Cytotoxic activity against cancer cells is a characteristic of WGA. Its binding effects have been studied in many cancers, including but not limited to liver cancer, choriocarcinoma, osteosarcoma, and some pancreatic cancers.

Abbreviation
WGA

Material Source
Wheat germ

Conjugate
Separopore® 6B

Purity
High Purity Grade

Shelf Life
1 year

Blood Group Specificity
Non-specific

Sugar Specificity
(GlcNAcβ4)n

Mitogenic Activity
No

Format
Liquid

Storage
2-8°C

Hazardous Shipping
Non-hazardous

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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