

## Triticum vulgaris Lectin (WGA) – Pure

### Description:

Wheat germ agglutinin (WGA) is isolated from wheat germ (*Triticum vulgaris*) and is a protein that reversibly and non-enzymatically binds to N-acetyl-D-glucosamine and sialic acid residues of glycoproteins and glycolipids. This lectin protects *Triticum vulgaris* from insects, yeast and bacteria. WGA consists of two subunits and has a molecular weight of 36,000. It is an acidic protein and has mitogenic activity toward lymphocytes. It agglutinates erythrocytes and most types of malignant cells. WGA, similar to insulin, enhances the rate of glucose oxidation in isolated fat cells. It inhibits C5a receptor interaction and is used for isolation and fractionation of insulin receptors.

### Specifications:

- **Source:** Triticum vulgaris (Wheat germ)
- **Activity:** Less than 4 µg/ml will agglutinate human type O erythrocytes. Less than 1 µg/ml will agglutinate neuraminidase-treated erythrocytes.
- **Carbohydrate Specificity:** N-Acetylglucosamine
- **Inhibitory Carbohydrate:** Chitin hydrolysate or 500 mM N-Acetylglucosamine
- **Mitogenic Activity:** Yes
- **Divalent Ions Required:** Ca<sup>++</sup>

### Storage and Stability:

Store frozen at -20°C in amber vials or covered with foil 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
20181018	Triticum vulgaris Lectin (WGA) Separopore® 4B
21761148	Triticum vulgaris Lectin (WGA) – FITC (Fluorescein)
21761149	Triticum vulgaris Lectin (WGA) – Cy5
21761060	Triticum vulgaris Lectin (WGA) – Texas Red
21761059	Triticum vulgaris Lectin (WGA) – Rhodamine (TRITC)

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