

Active Native Wheat *Triticum vulgaris* Lectin (WGA), TRITC-Conjugated

Cat. No. WGA-517W **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Wheat *Triticum vulgaris* Lectin (WGA) - TRITC (Rhodamine)
 Blood Group Specificity: Non-specific
 Preferred Sugar Specificity: N-Acetylglucosamine
 Inhibiting or Eluting Sugar: Chitin Hydrolysate or N-Acetylglucosamine w/acid or salt
 Divalent Ions: Ca⁺⁺
 Excitation: 545-555 nm
 Emission: 570-580 nm
 Mitogenic Activity: Yes
 Hazardous Shipping: Non-hazardous
 Fluorescence: Orange

Species Wheat

Source Wheat

Description

Wheat germ agglutinin (WGA) is a lectin that is affinity purified from *Triticum vulgaris* 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 kDa. It is an acidic protein and has mitogenic activity toward lymphocytes. It agglutinates erythrocytes and most types of malignant cells. WGA is labeled with tetramethylrhodamine isothiocyanate (TRITC) and has an appropriate number of fluorochromes bound to provide the optimum staining characteristics for this lectin.

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TRITC is a bright orange or red-fluorescent dye with excitation ideally suited to the 532-nm laser line. TRITC labeled WGA can be used for cellular imaging applications. This product comes in a stabilized liquid form.

Form	Liquid
Bio-activity	10 µg/ml will agglutinate human erythrocytes nonspecifically.
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	At 2-8 centigrade.
Concentration	5 mg/mL

GENE INFORMATION

Official Symbol	WGA
Synonyms	Triticum vulgaris Lectin; WGA

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