

Active Native Wheat Triticum vulgaris Lectin (WGA), Texas Red-Conjugated

Cat. No. WGA-567W **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Native Wheat Triticum vulgaris Lectin (WGA) - Texas Red
 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: 595 nm
 Emission: 615 nm
 Mitogenic Activity: Yes
 Hazardous Shipping: Non-hazardous
 Fluorescence: Red
 Carbohydrate Specificity: N-Acetylglucosamine

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. Texas Red is a red-fluorescent dye and when bound to Triticum vulgaris Lectin (WGA) can show the binding pattern of

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this lectin in cellular imaging applications. There is very little overlap between the emission spectra of Texas Red and FITC making this combination ideal for dual-labeling experiments. Rhodamine dyes, such as Texas Red, are more photostable and less sensitive to pH change when compared to other dyes such as fluorescein.

Form	Liquid
Bio-activity	10 µg/ml will agglutinate human erythrocytes nonspecifically.
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	Store frozen at -20 centigrade in amber vials or covered with foil in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at 2-8 centigrade for short term use.
Concentration	5 mg/mL

GENE INFORMATION

Official Symbol	WGA
Synonyms	Triticum vulgaris Lectin; WGA

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