

Active Native Wheat Germ Agglutinin Protein, Rhodamine labeled

Cat. No. Lectin-1862W Lot. No. (See product label)

SPECIFICATION

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| Product Overview | This product is the Agarose bound Wheat germ Agglutinin and has sugar specificity against N-Acetylglucosamine. The excitation maximum is at 550 nm and the emission maximum is at 575 nm. |
| Species | Wheat germ |
| Source | Wheat Germ |
| Description | Wheat germ agglutinin (WGA) contains a group of closely related isolectins, with an isoelectric point about pH 9. The receptor sugar for WGA is N-acetylglucosamine, with preferential binding to dimers and trimers of this sugar. WGA can bind oligosaccharides containing terminal N-acetylglucosamine or chitobiose, structures which are common to many serum and membrane glycoproteins. Bacterial cell wall peptidoglycans, chitin, cartilage glycosaminoglycans, and glycolipids can also bind WGA. Native WGA has also been reported to interact with some glycoproteins via sialic acid residues (see succinylated WGA). This lectin is used for the purification of insulin receptors and for neuronal tracing. |
| Form | 10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM Ca ²⁺ |
| Bio-activity | Inhibiting/Eluting Sugar: Chitin Hydrolysate or 500 mM N-acetylglucosamine with salt and/or acid elution generally required. |
| Molecular Mass | 36 kDa |

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| Applications | Immunofluorescence, Glycobiology |
| Usage | The recommended concentration range for use is 5-20 µg/ml. |
| Storage | Refrigerate in the dark. If a precipitate forms upon long-term storage at 4 centigrade, warm to 37 centigrade. and centrifuge before use. |
| Concentration | 5 mg/ml |
| GENE INFORMATION | |
| Synonyms | Lectin; WGA |

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