Succinylated Wheat Germ Agglutinin (WGA), Agarose bound

AL-1023S

Product Images

Short Description

Agarose bound, succinylated WGA is prepared using our affinity-purified lectins. This derivative has been reported to have properties distinct from the native lectin. Evidence suggests that Succinylated Wheat Germ agglutinin does not bind to sialic acid residues, unlike the native form, but retains its specificity toward *N*-acetylglucosamine. Using conjugates of the native lectin and the succinylated form can provide a system to distinguish between sialylated glycoconjugates and those containing only *N*-acetylglucosamine structures.

Features:

- Bead diameter ranges in size from 45-165 microns
- Matrix is stable in solutions at pH 3-11 as well as many organic solvents
- Immobilized lectins are prepared using affinity purified lectins
- Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
- Product supplied as a 1:1 suspension in buffer
- Inhibiting/Eluting Sugar: Chitin Hydrolysate; or 500 mM *N*-acetylglucosamine with salt and/or acid elution generally required; or Glycoprotein Eluting Solution (ES-5100)

Additional Information

Unit Size	2 ml, 5 ml
Applications	Glycobiology, Affinity Chromatography
Recommended Storage	2-8 °C DO NOT FREEZE
Solution	10 mM HEPES, pH 7.5, 0.15 M NaCl, 20 mM GlcNAc, 0.08% sodium azide
Recommended Usage	Wash gel thoroughly with buffer before use to remove sugar added to stabilize the lectin. Recommended product for eluting glycoconjugates bound to this agarose-lectin: Glycoprotein Eluting solution, Cat. No. ES-5100. Alternatively, 0.5 M N-Acetyl-D-Glucosamine (GlcNAc) can be used.For those glycoconjugates having very high affinity for WGA, it may be necessary to lower the pH of the eluting sugar solution to pH 3.0 with acetic acid and increase the concentration of GlcNAc. After use, wash the gel with several column volumes of buffered saline, then resuspend gel in buffered saline containing 0.08% sodium azide for storage.
Matrix Conjugate	Lectins
Sugar Specificity	N-Acetylglucosamine
Conjugate	Agarose

Products in this set

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• Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
• Hydrophilic spacer arm is inserted between the lectin and the matrix
• Conjugated proteins are not leached off the beads by Tris or other routinely used buffers
• No residual charges present after conjugation. This minimizes non-specific binding to the matrix
• Product supplied as a 1:1 suspension in buffer
• 3 mg lectin/ml gel
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