Soybean Agglutinin (SBA), Agarose bound

AL-1013-2

Product Images

Short Description

Agarose bound Soybean agglutinin is prepared using our affinity-purified lectins. Composed of four subunits of approximately equal size, soybean agglutinin is a family of closely related isolectins. This glycoprotein has a molecular weight of about 120 kDa and an isoelectric point near pH 6.0. SBA preferentially binds to oligosaccharide structures with terminal α- or β-linked *N*-acetylgalactosamine, and to a lesser extent, galactose residues. Binding can be blocked by substitutions on penultimate sugars, such as fucose attached to the penultimate galactose in blood group B substance.

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
- 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
- Inhibiting/Eluting Sugar: 200 mM *N*-acetylgalactosamine or Glycoprotein Eluting Solution (ES-2100)

Additional Information

Unit Size	2 ml
Applications	Glycobiology, Affinity Chromatography
Recommended Storage	2-8 °C DO NOT FREEZE
Solution	10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.1 mM $CaCl_2$, 20 mM galactose, 0.08% sodium azide, 0.01 mM $MnCl_2$
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-2100. Alternatively, 0.2 M N-acetylgalactoseamine in buffered saline can be used. 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	Galactose, N-Acetylgalactosamine
Conjugate	Agarose