

ABSOLUTE LECTINS

05-0041 Wisteria floribunda lectin (WFL)



Benefits

- Ultrapure quality
- Non-specific blood group activity
- Sugar specificity: Gal - GalNAc

Product description

Wisteria floribunda lectin is isolated from Japanese wisteria seeds and purified by affinity chromatography. The lectin has a molecular weight of 116 kDa and is composed of four polypeptide chains of 29 kDa. The lectin labels selectively N-acetylgalactosamines beta 1 (GalNAc beta 1-3 Gal) residues of glycoproteins within the extracellular matrix of the neurons, and has been identified as a specific marker for functionally different cortical areas of the rodent brain (1). Medicago's Wisteria floribunda lectin is supplied as a white to yellowish-white lyophilized powder. The purity is determined by SDS-PAGE, which generates one single band at 29 kDa corresponding to the four polypeptide chains. The lectin is available in vials containing 5 mg or 25 mg or 100 mg powder. The product is to be used for laboratory work only.

Applications

- Studies of virus surface glycoproteins
- Purifying virus when immobilized on an agarose gel

Directions for use

The lectin may be reconstituted with the buffer of choice, spin the vial gently until full dissolution.

Tips and hints

Avoid repeated freezing and thawing.

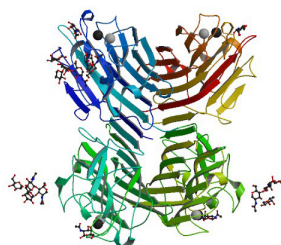


Figure 1: Crystal structure of Wisteria floribunda lectin (2)

Specifications

Appearance
Source
Molecular weight
Sugar specificity
Activity

Microbiology
Shelf life

Wisteria floribunda lectin (WFL) (05-0041)

White to yellowish-white lyophilized powder
Japanese wisteria seeds
116 kDa
Gal - GalNAc
Agglutinates human bloodgroup 0 erythrocytes at a lectin concentration down to $\leq 7 \mu\text{g/ml}$. The agglutination is inhibited by 00 mM N-acetylgalactosamine
 $\leq 100 \text{ CFU/g}$
 \geq Five years when stored at -20°C



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Shipping and storage

The product is shipped at -20°C however for over-the-day transport it may be shipped at ambient temperature. The lyophilized powder is stable for more than five years from production date when stored below -20°C. After reconstitution with deionized water, the solution may be stored frozen in working aliquots for up to 12 months.

Certifications

Medicago's laboratories and manufacturing site in Uppsala is ISO 9001:2015 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



Ordering information

Article no.	Product name	Pack size
05-0041-05	Wisteria floribunda lectin	5 mg
05-0041-25	Wisteria floribunda lectin	25 mg
05-0041-100	Wisteria floribunda lectin	100 mg

References

- (1) Anat Embryol (Berl). 2001 Jan;203(1):45-52. Wisteria floribunda agglutinin labeling patterns in the human cortex: a tool for revealing areal borders and subdivisions in parallel with immunocytochemistry. Hilbig H1, Bidmon HJ, Blohm U, Zilles K.
- (2) Molecular Basis for Recognition of the Cancer Glycobiomarker, LacdiNAc (GalNAc[beta 14]GlcNAc), by Wisteria floribunda Agglutinin. Haji-Ghassemi, O., Gilbert, M., Spence, J., Schur, M.J., Parker, M.J., Jenkins, M.L., Burke, J.E., van Faassen, H., Young, N.M., Evans, S.V.