

Datasheet for DSA – Datura stramonium Lectin

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DSA	Catalog Number: MGC-J105 Pkg: 5mg Product Form: Lyophilized powder (salt-free) Storage: Stable for 1 year at 4°C

Origin	Datura stramonium (Jimsonweed)
Sugar Specificity	β -D-GlcNAc, especially chitooligosaccharides (poly- β -1-4GlcNAc) N-acetyllactosamine (Gal β 1-4GlcNAc)
Mitogenic Activity	Present
Blood Type Specificity	Non-specific
Structure	A glycoprotein with a molecular weight of 86,000, consisting of a dimer of two subunits (40,000 and 46,000 Da)
Features	Binding affinity: (GlcNAc) ₄ > (GlcNAc) ₃ > (GlcNAc) ₂ Binds to sugar chains with repeated N-acetyllactosamine structures (tri- or tetra-antennary complex-type N-glycans) Strongly binds to I and i antigens

References

1. Crowley, J. F., et al., FEBS Letters, 130, 149 (1981)
2. Yamashita, K., et al., J. Biol. Chem., 262, 1602 (1987)
3. Cummings, R. D., et al., J. Biol. Chem., 259, 6253 (1984)