

# Product Information

## Datura Stramonium Lectin (DSL)

See [product page](#) for a full list of product names, unit sizes, and catalog numbers.

### Storage and Handling

Store at 4°C, protected from light. Product is stable for at least 12 months from date of receipt when stored as recommended.

### Conjugate Composition

Supplied at 1 mg/mL in 10 mM HEPES pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM CaCl<sub>2</sub>.

### Product Technical Information

See [product page](#) for spectral properties and other dye-specific technical information. See our [Spectra Viewer](#) to view and download the dye excitation and emission spectra.

### Product Description

The binding site of *Datura stramonium* Lectin (DSL) recognizes (beta-1,4) linked N-acetylglucosamine oligomers, preferring chitobiose or chitotriose over a single N-acetylglucosamine residue. DSL also binds well to N-acetyllactosamine and oligomers containing repeating N-acetyllactosamine sequences. This lectin binds well in the acidic pH range, but its affinity decreases above pH 8.0. Please note that CF® Dye DSL conjugates are formulated with sodium azide and, therefore, are unsuitable for use *in vivo* or live cell culture.

Biotium's next-generation fluorescent CF® Dyes offer advantages in brightness and photostability compared to other fluorescent dyes. We also offer a variety of lectin conjugates, including *Lycopersicon esculentum* (Tomato) Lectin (LEL, TL), *Ulex europaeus* Agglutinin I (UEA I), *Phaseolus vulgaris* Leucoagglutinin (PHA-L), *Sambucus nigra* lectin (SNA, EBL), and PNA Lectin (*Arachis hypogaea*) CF® Dye conjugates.

### Experimental Protocols

DSL conjugate applications are reported in published literature. We recommend consulting the literature to find a protocol that will be suitable for your application. For immunofluorescence of tissue sections, we recommend staining with 5 ug/mL lectin conjugate in PBS for 15 minutes, followed by washing in PBS as a starting point for optimization.

### Related Products

Cat. No.	Product
00070... 29127	Cholera Toxin Subunit B CF® Dye Conjugates
29015... 29136	CF® Dye Concanavalin A (Con A)
29060... 29137	CF® Dye PNA Lectin ( <i>Arachis hypogaea</i> )
29021... 29128	Wheat Germ Agglutinin (WGA) Conjugates
29102... 29132	<i>Lycopersicon Esculentum</i> (Tomato) Lectin (LEL, TL) Conjugates
29108... 29133	<i>Ulex Europaeus</i> Agglutinin I (UEA I) Conjugates
29114... 29134	<i>Phaseolus Vulgaris</i> Leucoagglutinin (PHA-L) Conjugates
29120... 29135	<i>Sambucus Nigra</i> Lectin (SNA, EBL) Conjugates
29030... 29129	Streptavidin Conjugates
40083... 41040	NucSpot® Nuclear Stains
40081-40082	NucSpot® Live Nuclear Stains for live or fixed cells
40060	RedDot™1 Far-Red Nuclear Stain for live cells
40061	RedDot™2 Far-Red Nuclear Stain for dead or fixed cells
30131-30135	CytoLiner™ Fixed Cell Membrane Stains
30021-30024	CellBrite® Cytoplasmic Membrane Dyes
30088-30090	CellBrite® Fix Membrane Stains
30105-30109	CellBrite® Steady Membrane Staining Kits
30092-30104	MemBrite® Fix Cell Surface Staining Kits
29067	Calcofluor White
40043	DAPI, 10 mg/mL in Water
40046	Hoechst 33342, 10 mg/mL in Water
30015	DAB Substrate Kit
92170... 96124	CF® Dye Tyramides
22027	Ready-to-Use Tyramide Amplification Buffer
22016	Permeabilization Buffer
22023	Paraformaldehyde, 4% in PBS, Ready-to-Use Fixative

Please visit our website at [www.biotium.com](http://www.biotium.com) for information on our life science research products, including environmentally friendly EvaGreen® qPCR master mixes, fluorescent CF® Dye antibody conjugates and reactive dyes, apoptosis reagents, fluorescent probes, and kits for cell biology research.

Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use.