OligoTech®

Human & Bacterial Lectins

Our Lectin offer

Produced by bacterial fermentation

Ensuring repeatability and reliability of production and structure. heavy metals free, no glycosylated lectins.

This process allows any scale-up demand fitting your need.

High affinity for ligands

Very low Kd from micromolar range giving a better sensitivity to the ligand.

Fully Characterized, QA/QC policies

Monitoring by ITC (isothermal titration calorimetry) ensuring reliability of calculated Kd for a given lectin, affinity checking.

Tested on microarray developed by CFG (Consortium for Functional Glycomics). Product information is also available from CFG web Site: www.functionalglycomics.org

Crystal structure is available for each lectin.

Calcium dependent

Calcium is required for the carbohydrate attachment which is an **Asset** for using these items as **biotechnology tools for affinity chromatography.**

Available with biotine or fluorophore labels on demand (FITC, Cy3, …)

No alterations of binding properties despite presence of labeling.

Lectin Uses and Applications

- **Biomedical research**
- **Carbohydrate recognition studies**
- **Biochemical tools (glycoprotein purification, affinity chromatography…)**

Contact us for any technical information and quote request
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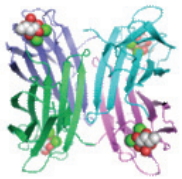
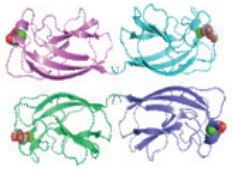
ELICITYL

Glycoproducts for Life sciences
Engineering and Production

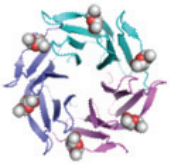
LEC101	LecB (PA-IIL) from *Pseudomonas aeruginosa*	Pack size
	Bacterial protein produced in *E.coli*	**1, 5, 10 mg**
Molecular weight	12.75 kDa (monomer)	
Oligomerization	Tetramer	
Appearance	Lyophilized	
Sugar specificity	Fucose	
Sugar affinity	Kd for αMeFuc : **0.41 µM**	
Other known specificity	Lewis^a > αMeFuc > Fuc> Man	
Properties	Calcium dependent	
Caution	Standard conditions of use	



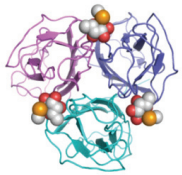
LEC102	LecA (PA-IL) from *Pseudomonas aeruginosa*	Pack size
	Bacterial protein produced in *E.coli*	**1, 5, 10 mg**
Molecular weight	11.73 kDa (monomer)	
Oligomerization	Tetramer	
Appearance	Lyophilized	
Sugar specificity	αGalactose	
Sugar affinity	Kd for αMeGal: **50 µM**	
Other known specificity	αGal disaccharides > αMeGal > βMeGal	
Properties	Calcium dependent	
Caution	Cytotoxic/requires trained and qualified personnel	



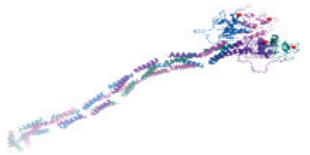
LEC202	RSL from *Ralstonia solanacearum*	Pack size
	Bacterial protein produced in *E.coli*	**1, 5, 10 mg**
Molecular weight	9.9 kDa (monomer)	
Oligomerization	Trimer (with 6 fucose binding sites)	
Appearance	Lyophilized	
Sugar specificity	Fucose	
Sugar affinity	Kd for αMeFuc: **0.74 µM**	
Other known specificity	αFuc1-2Gal > αFuc1-6GlcNAC > αFuc1-4GlcNAC...	
Properties	-	
Caution	Standard conditions of use	



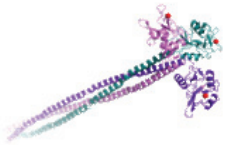
LEC302	BC2LC-Nt from *Burkholderia cenocepacia*	Pack size
	Bacterial protein produced in *E.coli*	**1 mg/mL**
Molecular weight	19.26 kDa (monomer)	
Oligomerization	Trimer	
Appearance	Solution in Tris buffer	
Sugar specificity	Fucose	
Sugar affinity	Kd for Lewis^y: **2.4 µM** Kd for Fuc: **2.7 mM**	
Other known specificity	Lewis^y > H type 1 > Lewis^a > ...> Fuc	
Properties	-	
Caution	Standard conditions of use	



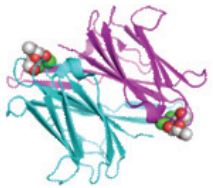
LEC401	DC-SIGN ECD (extra-cellular domain)	Pack size
	Human protein produced in *E.coli*	**0.2, 1, 5 mg**
Molecular weight	38.8 kDa (monomer)	
Oligomerization	Tetramer	
Appearance	Solution in 150 mM NaCl, 25 mM Tris pH 8,4 mM $CaCl_2$ buffer	
Sugar specificity	High Mannose	
Known interaction	Various pathogen surface glycc (HIV, HCV, CMV, Ebola, Dengue *M. tuberculosis* ...)	
Other known specificity	Fucose, Lewis^x , Lewis^y	
Properties	Calcium dependent	



LEC402	Langerin ECD (extra-cellular domain)	Pack size
	Human protein produced in *E.coli*	**0.2, 1, 5 mg**
Molecular weight	29.4 kDa (monomer)	
Oligomerization	Trimer	
Appearance	Solution in 150 mM NaCl, 25 mM Tris pH 8,4 mM $CaCl_2$ buffer	
Sugar specificity	High Mannose	
Known interaction	gp120 (HIV), Keratan sulfate	
Other known specificity	Sulfated sugars (Sulfated Le^x, sulfated gal	
Properties	Calcium dependent	
Caution	Standard conditions of use	



LEC301	BC2LA from *Burkholderia cenocepacia*	Pack size
	Bacterial protein produced in *E.coli*	**1, 5, 10 mg**
Molecular weight	13.76 kDa (monomer)	
Oligomerization	Dimer	
Appearance	Lyophilized	
Sugar specificity	Mannose	
Sugar affinity	Kd for aMeMan: **2.75 µM**	
Other known specificity	All αMan- terminating oligosaccharides	
Properties	Calcium dependent	
Caution	Standard conditions of use	



This selection of lectins is extracted from the OligoTech® catalogue, our offer of glycoproducts.
Full catalogue can be downloaded from **www.elicityl-oligotech.com**

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