

---

## Product Data Sheet

---

Product Name: Sialyl-Lewis X

Cat. No.: GC63191

### Chemical Properties

Cas. No. 98603-84-0

Formula  $C_{31}H_{52}N_2O_{23}$

M.Wt

820.74

Solubility

Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Sialyl-Lewis X (sLeX) is a sialylated fucosylated tetrasaccharide, an endogenous antigen. Sialyl-Lewis X is a high-affinity ligand for selectins (E-, P-, and L-selectin)[1]. Sialyl-Lewis X binds to ELAM-1 and CD62 and has the ability to inhibit CD62-mediated neutrophil recruitment to sites of inflammation[2].

Sialyl-Lewis X is a high-affinity ligand of CD62, Antibodies [mAb CSLEX (IgM; anti-sLeX)] to sLeX inhibit CD62-mediated binding of HL-60 cells to activated platelets[1]. Liposomes containing glycolipids with the sLeX structure prevent adhesion of HL-60 cells and human neutrophils. HL-60 cell adhesion is partially inhibited (50%) by liposomes containing Lex at 5 µg/ml. However, sLeX liposomes give maximal inhibition at only 1 µg/ml. sLeX liposomes inhibit adhesion with a 10-fold higher affinity than Lex liposomes[1]. CD62 binding of neutrophils to activated platelets is inhibited by a soluble human milk oligosaccharide that contains the LeX structure. The sLeX sugar is a 30-fold more potent inhibitor than the nonsialylated Lex sugar, which requires 2 µg/ml and 54 µg/ml to achieve 50% inhibition of neutrophil adhesion, respectively[1].

[1]. M J Polley, et al. CD62 and Endothelial Cell-Leukocyte Adhesion Molecule 1 (ELAM-1) Recognize the Same Carbohydrate Ligand, sialyl-Lewis X. Proc Natl Acad Sci U S A. 1991

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

Jul 15;88(14):6224-8.

[2]. L A Lasky, et al. Selectins: Interpreters of Cell-Specific Carbohydrate Information During Inflammation. Science

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**