

Title (en)
INHIBITION OF CELL ADHESION BY CHEMICALLY-DEFINED OLIGOSACCHARIDES, THEIR DERIVATIVES, MIMETICS, AND ANTIBODIES DIRECTED THERETO.

Title (de)
INHIBITION DER ZELLADHÄSION DURCH CHEMISCH DEFINIERTE OLIGOSACCHARIDE, IHRE DERIVATE, MIMETIKA, UND ANTIKÖRPER SPEZIFISCH DAFÜR.

Title (fr)
INHIBITION DE L'ADHERENCE CELLULAIRE PAR OLIGOSACCHARIDES DEFINIS CHIMIQUEMENT, LEURS DERIVES, DES IMITATEURS ET DES ANTICORPS.

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Abstract (en)
[origin: WO9317033A1] Many tumor-associated and leukocyte-associated carbohydrate antigens function as adhesion molecules, recognized by lectins (carbohydrate-protein interaction) or complementary carbohydrates (carbohydrate-carbohydrate interaction). Common structures are found in the tumor-associated and leukocyte-associated antigens. Metastatic potential of tumor cells as well as transendothelial migration of leukocytes was suppressed by agents, or combinations of agents of the groups: (a) carbohydrate antigens; (b) antibodies directed to those antigens; (c) oligosaccharide components of those antigens; (d) conjugates of the antigens or oligosaccharides; and (e) mimetics of the antigens or oligosaccharides. Disclosed are oligosaccharides and derivatives thereof which inhibit cell adhesion and aggregation mediated by P-selectin (GMP-140) and E-selectin (ELAM-1). Effective agents for those purposes include hybrid sugars comprising multiple epitopes, such as Le<x>/SLe<x>, combination of individual sugars that comprise a hybrid sugar, which may be presented on liposomes, and antibodies or combinations of antibodies directed thereto.

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