

**CHIMERIC SELECTINS AS SIMULTANEOUS BLOCKING AGENTS
FOR COMPONENT SELECTIN FUNCTION**

ABSTRACT

Chimeric peptides or polypeptides that combine ligand binding portions from within the lectin and EGF domains of two different selectins are disclosed. The peptides or polypeptides can be constructed solely of the indicated portions of lectin or EGF domains or they can include portions of any of the remaining domains (SCR, transmembrane or cytoplasmic), or the entire extracellular portion, of a generic selectin molecule. The peptides or polypeptides also can be joined to a carrier protein (e.g., a soluble portion of an immunoglobulin molecule) to increase the serum half-life of the therapeutic agent. The chimeric polypeptides can be used as therapeutic agents to antagonize selectin function. They are also useful for screening for agents that are simultaneously antagonists of the function of lectin and EGF domains of different selectins.

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