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[Continued on next page]

(54) **Title:** RECOMBINANT E-SELECTIN MADE IN INSECT CELLS

Recombinant Human E-Selectin Amino Acid Sequence

Cleavable signal peptide

NH- 1 MGWSWIFLFLLSGTASVHSWSYNTSTEAMTYDEASAYCQQ**RYTHLVAIQN** 50

51 **KEEIEYLNSILSYSPSYYWIGIRKVNNVWVWVGTQKPLTEEAKNWAPGEP** 100
Lectin-binding Domain

101 **NNRQKDEDCVEIYIKREKDV**GMWNDERCSKKKLALCYTAACTNTSCSGHG 150

151 ECVETINNYTCKCDPGFSGLKCEQIVNCTALESPEHGSLVCSHPLGNFSY 200

201 NSSCSISCDRGYLPSSMETMQCMSSGEWSAPIPACNVVECDAVTNPANGF 25
EGF Domain

251 VECFQNPGSFPWNTTCTFDCEEGFELMGAQSLQCTSSGNWDNEKPTCKAV 300

301 TGGASTRAAE**QKLISEEDLNGTRSGHHHHHH**** 331 –**COOH**

AcMNPV gp64 env secretory signal sequence:	aA 1-19
Human E-selectin extracellular portion:	aa 20-310
Human E-selectin lectin-binding domain:	aa 40 -120
Human E-selectin EGF domain	aa 200 - 275
c-myc epitope (to be removed):	aa 311-319
6x HIS tag:	aa 326-331

(57) **Abstract:** The inventive features include recombinant mammalian E-selectin peptides, nucleic acids encoding said peptides, vectors and cells having these nucleic acids, and methods of making the peptides. Further inventive features include methods of treating diseases and conditions associated with inflammation using recombinant mammalian E-selectin peptides to induce mucosal tolerance to E-selectin.

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