

ABSTRACT

**IMPROVEMENTS IN GRANULOCYTE-MACROPHAGE COLONY-STIMULATING
FACTOR RECEPTOR AND DERIVATIVES THEREOF.**

The invention provides a recombinant or synthetic receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF) and biochemical and/or biological equivalents, homologues, or derivatives thereof. The GM-CSF receptor is useful inter alia in treatment and diagnosis of GM-CSF related diseases, and in screening of agonists and antagonists of binding of GM-CSF to its cell-bound receptors. The invention further provides nucleic acid sequences encoding GM-CSF receptor, recombinant DNA molecules comprising these sequences, and transformed hosts carrying the recombinant DNA molecules, as well as antibodies directed against GM-CSF receptor, and pharmaceutical compositions comprising either the GM-CSF receptor or antibody thereto.

(Figure 6B)