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GM-CSF Receptor

National Cancer Institute

Source

National Cancer Institute. *GM-CSF Receptor*. NCI Thesaurus. Code C38991.

Heterodimeric human GM-CSF Receptor is composed of Colony Stimulating Factor 2 Receptor Alpha Chain and Colony Stimulating Factor 2 Receptor Beta Chain. CSF2RA is a type I membrane protein with a box 1 motif for JAK interaction/activation and a WSXWS motif for protein folding, intracellular transport, and cell-surface receptor binding. The receptor signal transducing beta chain is common to the high affinity IL3-, IL5- and GM-CSF receptors. CSF2R transduces the CSF2 signal for proliferation, differentiation, and activation of (primarily) granulocyte and macrophage hematopoietic cells. (NCI)