

Cytokine Guide for Researchers

The comprehensive guide to choosing high-quality cytokines based on applications.



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The Comprehensive Guide to Choosing High-quality Cytokines Based on Applications.

Cytokines are small proteins produced by immune cells that have specific effects on cellular communications and interactions. These molecules can act on the cells that secrete them, on nearby cells, or in some instances on distant cells. They could work together or against each other to regulate immune functions.

The role of cytokines is constantly being investigated in clinical studies. The therapeutic benefits of targeting cytokine receptor signaling pathways are being studied for a wide range of diseases, including inflammation, autoimmune diseases, and cancer. This whitepaper discusses the coverage and quality of cytokine products suitable for your research.



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Cytokines For T-cell Culture

Several stages of the immune response can be affected by cytokines. In recent years, advances in T-cell mediated cancer therapies, such as CAR-T or tumor-infiltrating lymphocyte therapies, have opened up new possibilities for treating cancer. Interleukin-2 (IL-2) is a potent cytokine most commonly used in T cell culture to promote the proliferation and differentiation into effector and memory T cells. Other yc-cytokines, such as IL4, IL-7, IL-15, and IL-21, play essential roles in memory T cell formation, proliferation, and survival.



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Cytokines In Inflammatory Disorders

Inflammatory cytokines are key regulators of immune responses. Cytokines are emerging as therapeutic targets for inflammatory disorders and autoimmune diseases. Most clinical and pre-clinical studies identify TNFα, IL-6, IL-17, and IL-23 as the major drug targets for autoimmunity, whereas, IL-1β, IL-6, IL-11, IL-17, TNFα, Eotaxin are involved in inflammatory disorders.



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Cytokines In Stem Cell Research

Cytokines and growth factors are integral to stem cell research. Many growth factors and cytokines involved in hematopoiesis, neuropoiesis, mesenchymal, and cancer stem cell expansion have been extensively characterized for their potential use in stem cell therapy.



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Cytokines In Cancer Therapy

The cytokines trigger a downstream signaling cascade in cells by binding to their receptors. As a result, cytokines and their receptors are major drug targets, especially for the treatment of cancer. Therapeutic targeting of cytokine pathways holds great promise for cancer treatment. Several new therapeutic approaches to cancer utilize cytokine antagonists or inhibitors to inhibit the proliferation and metastasis of tumor cells and make the cancer cells more susceptible to cytotoxic agents.



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