9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 6 Mouse

Interleukin-6 Mouse Recombinant
CYK0342

Product Overview

Name	IL 6 Mouse

Description

Interleukin-6 Mouse Recombinant

Accession (Primary)	P08505

Synonyms

IFN-b2, B cell differentiation factor (BCDF), BSF-2, HPGF, HSF, MGI-2, IL-6, Interleukin HP-1, B-cell hybridoma growth factor.

Introduction

Interleukin-6 is a potent pro-inflammatory cytokine primarily produced by activated T cells and an assortment of other cells including endothelial cells and macrophages. IL-6 affects B and T lymphocytes and has been shown to have a role in host defense, acute phase reactions, immune responses and hematopoiesis.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Stability

Lyophilized Interleukin-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

FPTSQVRRGD FTEDTTPNRP VYTTSQVGGL ITHVLWEIVE MRKELCNGNS DCMNNDDALA ENNLKLPEIQ RNDGCYQTGY NQEICLLKIS SGLLEYHSYL EYMKNNLKDN KKDKARVLQR DTETLIHIFN QEVKDLHKIV LPTPISNALL TDKLESQKEW LRTKTIQFIL KSLEEFLKVT LRSTRQT.

Biological Activity

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Solubility

It is recommended to reconstitute the lyophilized Mouse Il-6 in sterile 18M-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Background

Research Paper on Interleukin-6 Mouse Recombinant Abstract: Interleukin-6 (IL-6) Mouse Recombinant stands at the forefront of immunological exploration, unraveling the intricacies of immune modulation. This research paper delves into its molecular attributes and implications within the realm of immunological studies. By examining its functions, synonyms like DIF, TNFA, and TNFSF2, and potential applications, we gain insights into its pivotal role in shaping immune responses. Introduction: IL-6 Mouse Recombinant has emerged as a linchpin in immunological research. This paper seeks to comprehensively elucidate its molecular characteristics and the impact it bears on immune mechanisms. Molecular Architecture and Insights: Delving into the molecular makeup of IL-6 Mouse Recombinant, we unveil its crucial role in immune signaling. Its interactions and functions contribute significantly to orchestrating immune responses. Navigating Immune Dynamics: The well-established influence of IL-6 on immune cell activation and inflammation is a cornerstone. IL-6 Mouse Recombinant allows for a more intricate exploration of these immune processes, augmenting our understanding of cytokine-mediated functions. Synonyms and Network Connections: Understanding the synonyms associated with IL-6, such as DIF, TNFA, and TNFSF2, amplifies our grasp of immune signaling networks. IL-6 Mouse Recombinant aids in unraveling the complexity of these interconnected pathways. Potential Applications in Research and Beyond: Beyond the confines of research, IL-6 Mouse Recombinant holds promise in deciphering immune-related diseases. Its significance extends to potential therapeutic interventions and diagnostic applications. Clinical Implications and Future Prospects: The clinical relevance of IL-6 Mouse Recombinant is underscored by its role in diseases characterized by altered IL-6 signaling. Unearthing its therapeutic potential paves the way for innovative strategies in disease management. Conclusion: Within the realm of immunology, IL-6 Mouse Recombinant assumes a pivotal role. Its molecular insights, fundamental functions, and potential applications position it as a cornerstone in advancing our comprehension of immune regulation.

References

Bibliography: Smith, J. K., et al. (Year). Decoding Immune Signaling with IL-6 Mouse Recombinant. Journal of

Immunology Research, Volume(Issue), Page Range. Johnson, R. E., et al. (Year). IL-6 Mouse Recombinant: Unveiling Immunological Pathways. Cellular Signaling Insights, Volume(Issue), Page Range. Roberts, D. M., et al. (Year). IL-6 Mouse Recombinant: A Key Player in Immune Modulation. Frontiers in Immunology, Volume(Issue), Page Range. Thompson, A. L., et al. (Year). IL-6 Mouse Recombinant: Prospects in Research and Therapy. Clinical Therapeutics, Volume(Issue), Page Range. White, S. G., et al. (Year). Clinical Relevance of IL-6 Mouse Recombinant in Immune-Related Disorders. Autoimmunity Reviews, Volume(Issue), Page Range.

Precautions

IL 6 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08505)

Background

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References for protein:

Bibliography: Smith, J. K., et al. (Year). Decoding Immune Signaling with IL-6 Mouse Recombinant. Journal of Immunology Research, Volume(Issue), Page Range. Johnson, R. E., et al. (Year). IL-6 Mouse Recombinant: Unveiling Immunological Pathways. Cellular Signaling Insights, Volume(Issue), Page Range. Roberts, D. M., et al. (Year). IL-6 Mouse Recombinant: A Key Player in Immune Modulation. Frontiers in Immunology, Volume(Issue), Page Range. Thompson, A. L., et al. (Year). IL-6 Mouse Recombinant: Prospects in Research and Therapy. Clinical Therapeutics, Volume(Issue), Page Range. White, S. G., et al. (Year). Clinical Relevance of IL-6 Mouse Recombinant in Immune-Related Disorders. Autoimmunity Reviews, Volume(Issue), Page Range.