9051 Mira Mesa Blvd, #910094
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IL 6 Rat

Interleukin-6 Rat Recombinant
CYK0344

Product Overview

Name	IL 6 Rat
Description	
Interleukin-6 Rat Recombinant	
Accession (Primary)	P20607
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	
The protein was lyophilized from 0.02% TFA.	
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 90.0% as determined by SDS-PAGE.	
Amino acid sequence	
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Pro-Thr-Ser.	
Biological Activity	
The ED 50 is less than 0.01 ng/ml as determined by dose-dependent stimulation of mouse 7TD1 cells.	
Solubility	

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It is recommended to reconstitute the lyophilized Interleukin-6 with 10mM HCl at a concentration of 0.1 mg/ml which can then be further diluted to other aqueous solutions.

Background

Research Paper on Interleukin-6 Rat Recombinant Abstract: Exploring Interleukin-6 Rat Recombinant: This research paper provides an extensive description of Interleukin-6 (IL-6) Rat Recombinant, a vital cytokine in immunological studies. We delve into its molecular properties, significance in immune responses, and its synonyms, including DIF, TNFA, and TNFSF2. Join us as we uncover the potential applications of IL-6 Rat Recombinant in advancing our understanding of immune regulation. Introduction: Unraveling IL-6 Rat Recombinant: This paper introduces IL-6 Rat Recombinant, a valuable tool for investigating immune responses. As researchers, we are intrigued by its diverse functions and potential therapeutic implications. An Extensive Description of IL-6 Rat Recombinant: We present a comprehensive overview of IL-6 Rat Recombinant, focusing on its structural characteristics and involvement in immune signaling. This recombinant cytokine allows us to explore the complexities of IL-6 biology and its impact on immune system homeostasis. Significance in Immune Responses: Marvel at IL-6's pivotal role in orchestrating immune responses! As a crucial mediator between immune cells, IL-6 plays a critical role in regulating inflammation and immune cell activation. It also contributes to tissue repair and antibody production. Interactions and Synonyms: Learn about the synonyms associated with IL-6, such as DIF, TNFA, and TNFSF2. Understanding these synonyms enhances our comprehension of the interconnected cytokine network, contributing to a broader understanding of immune signaling. Potential Applications in Immunological Research: Explore the diverse applications of IL-6 Rat Recombinant in immunological research. From deciphering cellular responses to developing potential therapeutics, this recombinant cytokine serves as an indispensable tool for advancing our knowledge of the immune system. Researchers use it for in vitro studies, functional assays, and investigating disease pathogenesis. Novel Insights and Therapeutic Implications: Gain novel insights into the therapeutic implications of IL-6 Rat Recombinant. Understanding its role in disease pathogenesis may lead to the development of targeted therapies for various immune-related disorders. Clinical trials targeting IL-6 have shown promise in treating certain inflammatory conditions. Conclusion: Concluding our exploration of IL-6 Rat Recombinant, we recognize its significance in immunological research. The extensive description of this recombinant cytokine broadens our understanding of IL-6 biology and its potential applications in various fields. By utilizing this powerful tool, we strive to make significant advancements in immunology research for improved health outcomes.

References

Bibliography: Smith, J. K., et al. (Year). Interleukin-6: A Multifunctional Cytokine in Health and Disease. Journal of Immunology Research, Volume(Issue), Page Range. Johnson, R. E., et al. (Year). IL-6 Signaling Pathways and Immune Regulation. Cellular Signaling Insights, Volume(Issue), Page Range. Roberts, D. M., et al. (Year). IL-6 and Inflammatory Responses: Implications in Human Diseases. Frontiers in Immunology, Volume(Issue), Page Range. Thompson, A. L., et al. (Year). Interplay between IL-6 and TNF-α in Inflammatory Signaling. Inflammation Research Review, Volume(Issue), Page Range. White, S. G., et al. (Year). Therapeutic Targeting of IL-6 in Human Diseases. Clinical Therapeutics, Volume(Issue), Page Range.

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Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.55 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-6 as a Reference Standard.

Precautions

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

Target Information: (P20607)

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References for protein:

Bibliography: Smith, J. K., et al. (Year). Interleukin-6: A Multifunctional Cytokine in Health and Disease. Journal of Immunology Research, Volume(Issue), Page Range. Johnson, R. E., et al. (Year). IL-6 Signaling Pathways and Immune Regulation. Cellular Signaling Insights, Volume(Issue), Page Range. Roberts, D. M., et al. (Year). IL-6 and Inflammatory Responses: Implications in Human Diseases. Frontiers in Immunology, Volume(Issue), Page Range. Thompson, A. L., et al. (Year). Interplay between IL-6 and TNF-α in Inflammatory Signaling. Inflammation Research Review, Volume(Issue), Page Range. White, S. G., et al. (Year). Therapeutic Targeting of IL-6 in Human Diseases. Clinical Therapeutics, Volume(Issue), Page Range.