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IL 6 Mouse, Sf9

Interleukin-6 Mouse Recombinant, Sf9
CYK0343

Product Overview

Name	IL 6 Mouse, Sf9
Description	
Interleukin-6 Mouse Recombinant, Sf9	
Accession (Primary)	P08505
Synonyms	
Interleukin-6, IL-6, B-cell hybridoma growth factor, Interleukin HP-1.	
Introduction	
Il-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of b-cells into ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiation, in hepatocytes it induces acute phase reactants.	
Source	
Sf9, Baculovirus cells.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
IL 6 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95% as determined 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 HHH HHH.	
Biological Activity	
Measured in a cell proliferation assay using M-NFS-60 mouse B cell. The ED 50 for this effect is less or equal to 0.1 ng/ml.	

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Background

Research Paper on Interleukin-6 Mouse Recombinant, Sf9 Abstract: Exploring Interleukin-6 Mouse Recombinant, Sf9, a fascinating research topic! This paper provides an extensive description of Interleukin-6 (IL-6) Mouse Recombinant expressed in Sf9 insect cells. We delve into the molecular properties of IL-6, its significance in immune responses and inflammation, and its synonyms, including DIF, TNFA, and TNFSF2. Join us as we uncover the potential applications of IL-6 research using this novel recombinant mouse protein. Introduction: Introducing Interleukin-6 Mouse Recombinant, Sf9. This paper sheds light on the production and characteristics of IL-6 expressed in Sf9 insect cells. As researchers, we are intrigued by the versatility and applications of this recombinant protein in immunological studies. An Extensive Description of Interleukin-6 Mouse Recombinant: We present a comprehensive overview of Interleukin-6 Mouse Recombinant, focusing on its structure and functions. This recombinant protein enables us to explore IL-6's role in various cellular processes, making it a valuable tool for investigating immune regulation. Significance in Immune Responses: Marvel at IL-6's critical role in orchestrating immune responses! As a key cytokine, IL-6 plays a central role in immune cell activation and the regulation of inflammatory processes. Its pleiotropic effects contribute to maintaining homeostasis in the immune system. Interactions and Synonyms: Learn about the synonyms associated with IL-6, such as DIF, TNFA, and TNFSF2. Understanding these synonyms enhances our understanding of the interconnectedness of cytokine signaling. The complex interactions between IL-6 and other molecules further enrich our knowledge of immune responses. Potential Applications in Immunological Research: Explore the wide range of applications of Interleukin-6 Mouse Recombinant in immunological studies. From cell-based assays to therapeutic developments, this recombinant protein offers novel avenues for advancing immunology research. It serves as a valuable tool in deciphering the intricate immune system functions. Novel Production Method using Sf9 Insect Cells: Discover the innovative use of Sf9 insect cells for producing Interleukin-6. This expression system provides a scalable and efficient approach for obtaining large quantities of functional IL-6. The use of Sf9 cells opens up possibilities for large-scale protein production and downstream applications. Conclusion: Concluding our exploration of Interleukin-6 Mouse Recombinant, Sf9, we recognize its significance in immunological research. The extensive description of this recombinant protein broadens our understanding of IL-6 biology and its potential applications in various fields. As researchers, we are excited about the potential discoveries that lie ahead with the help of this valuable tool.

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.

Precautions

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IL 6 Mouse, Sf9 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:

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