

TECHNICAL DATA SHEET

Recombinant Human IL-1 β (Carrier-free)

Catalog Number: 21-8018

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-1 β (Carrier-free)

DESCRIPTION

IL-1 beta is a proinflammatory cytokine produced by activated macrophages that functions as a T and B cell mitogen. IL-1 beta is structurally related to IL-1 alpha and although both proteins are regulated independently, they exert similar biological effect in response to inflammatory agents.

MOLECULAR MASS

Recombinant Human IL-1 β is a 17.3 kDa protein consisting of 153 amino acid residues.

AMINO ACID SEQUENCE

APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Frog, Monkey, Mouse, Rabbit, Rat, Sheep

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by Mouse D10S cells is \leq 1.0 pg/ml, corresponding to a specific activity of \geq 1 x 10⁹ units/mg.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Cancer; Diabetes / Weight Regulation; Immune System; Inflammation ; Neurobiology; Proliferation: Stem Cells & Differentiation: Wound Healing: Allergy: Transplantation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

March CJ, B Mosley, A Larsen, DP Cerretti, G Braedt, V Price, S Gillis, CS Henney, SR Kronheim, K Grabstein, et al 1985 Nature 315(6021): 641-647.
Stevenson FT, F Torrano, RM Locksley and DH Lovett 1992 J Cell Physiol 152(2): 223-231. Martinon F and J Tschopp 2007 Cell Death Differ 14(1): 10-22.

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