

TECHNICAL DATA SHEET

Recombinant Mouse IL-1 α (Carrier-free)

Catalog Number: 21-8011

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Mouse IL-1 α (Carrier-free)

DESCRIPTION

IL-1 alpha, a member of the IL-1 family, is a non-secreted proinflammatory cytokine involved in the promotion of fever and sepsis. This cytokine is primarily produced by activated macrophages in addition to neutrophils, epithelial and endothelial cells. IL-1 alpha is known to induce proliferation in vascular smooth muscle cells, to be involved in T cell activation, and stimulation of thymocyte proliferation.

MOLECULAR MASS

Recombinant Mouse IL-1 α is an 17.9 kDa protein composed of 156 amino acid residues.

AMINO ACID SEQUENCE

SAPYTYQSDL RYKLMKLVQR KFMNDSLNLQ TIYQDVDKHY LSTTWLNDLQ QEVKFDMYAY SSGGDDSKYP VTLKISDSQL
FVSAQGEDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLP SM TDFQIS

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

Human, Rat

BIOACTIVITY

ED₅₀ of <0.002 ng/ml corresponding to a specific activity of >5 x 10⁸ units/mg is calculated by dose-dependent stimulation of Mouse D10S cells.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Gery I, RK Gershon and BH Waksman 1972 J Exp Med 136(1): 128–142. Dinarello CA 1997 Semin Oncol 24 S9–81–S9–93. Watanabe N and Y Kobayashi 1994 Cytokine 6: 597–601. Barland CO, E Zettersten, BS Brown, J Ye, PM Elias and R Ghadially 2004 J Invest Dermatol 122: 330–336.

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