

# **TECHNICAL DATA SHEET**

Equivalent Performance, Exceptional Value

# Recombinant Mouse IL-1β (Carrier-free)

Catalog Number: 21-8012

RPx-Pro<sup>™</sup> Recombinant Protein

PRODUCT INFORMATION

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Recombinant Mouse IL-1β (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 Mouse IL-1β is a 17.5 kDa protein composed of 153 amino acid residues.

#### AMINO ACID SEQUENCE

MVPIRQLHYR LRDEQQKSLV LSDPYELKAL HLNGQNINQQ VIFSMSFVQG EPSNDKIPVA LGLKGKNLYL SCVMKDGTPT LQLESVDPKQ YPKKKMEKRF VFNKIEVKSK VEFESAEFPN WYISTSQAEH KPVFLGNNSG QDIIDFTMES VSS

SOURCE **APPLICATIONS PURITY STORAGE** 98 % E. Coli Bioassay -20°C

### **PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

### **ENDOTOXIN LEVEL**

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

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

# **CROSS REACTIVITY**

Human, Monkey, Pig, Rat, Mouse, Chicken

#### **BIOACTIVITY**

The ED<sub>50</sub> as determined by the dose-dependent stimulation of Mouse D10S cells is ≤0.002 ng/ml, corresponding to a specific activity of ≥5 x 10<sup>8</sup> 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.

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.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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