

TECHNICAL DATA SHEET

Recombinant Mouse GM-CSF (Carrier-free)

Catalog Number: 21-8331

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse GM-CSF (Carrier-free)

DESCRIPTION

Granulocyte macrophage colony stimulating factor, GM-CSF, is a cytokine secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts, and acts as a white blood cell growth factor. GM-CSF also induces stem cells to produce granulocytes and monocytes.

MOLECULAR MASS

Recombinant Mouse GM-CSF is a 14.2 kDa protein composed of 125 amino acid residues.

AMINO ACID SEQUENCE

MAPTRSPITV TRPWKHVEAI KEALNLLDDM PVTLNNEEVV VSNEFSFKKL TCVQTRLKIF EQGLRGNFTK LKGALNMTAS YYQTYCPPTP
ETDCETQVTT YADFIDSLKT FLTDIPFECK KPVQK

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/μg of protein (<1 EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Rat

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of mouse FDC-P1 cells is ≤0.05 ng/ml, corresponding to a specific activity of ≥2 x 10⁷ units/mg.

RESEARCH AREAS

Cancer; Cell Culture; Inflammation; Proliferation; Stem Cells & Differentiation; Wound Healing

RECONSTITUTION

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

REFERENCES

Morrissey PJ, Grabstein KH, Reed SG and Conlon PJ 1989 Int Arch Allergy Immunol 88: 40-45.

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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