

TECHNICAL DATA SHEET

Recombinant Mouse IL-13 (Carrier-free)

Catalog Number: 21-8131

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse IL-13 (Carrier-free)

DESCRIPTION

IL-13, produced primarily by Th2 cells and to a lesser extent by mast and NK cells, is an immunoregulatory cytokine. Its various functions include induction of matrix metalloproteinases, IgE secretion from activated B cells, inhibition of the expression of inflammatory cytokines including IL-1 β , TNF-alpha, IL-6 and IL-8, and enhancement of B cell proliferation.

MOLECULAR MASS

Recombinant Mouse IL-13 is a 12.3 kDa protein composed of 111 amino acid residues.

AMINO ACID SEQUENCE

MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F

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

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent proliferation of TF-1 cells was <4.0 ng/ml, corresponding to a specific activity of >2.5 x 10⁵ units/mg.

RESEARCH AREAS

AIDS/HIV; Cancer; Immune System; Inflammation; Stem Cells & Differentiation; Allergy

RECONSTITUTION

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

REFERENCES

Minty A, Chalon P, Derocq JM, Dumont X, Guillemot JC, Kaghad M, Labit C, Leplatois P, Liauzun P and Miloux B 1993 Nature 362(6417): 248–50. McKenzie AN, Culpepper JA, de Waal Malefyt R, Brière F, Punnonen J, Aversa G, Sato A, Dang W, Cocks BG and Menon S 1993 Proc Natl Acad Sci USA 90(8): 3735–9. Wynn TA 2003 Annu Rev Immunol 21: 425–56.

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