

TECHNICAL DATA SHEET

Recombinant Human IL-33 (Carrier-free)

Catalog Number: 21-8338

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-33 (Carrier-free)

DESCRIPTION

Human IL-33 is a proinflammatory protein that shares structural and functional characteristics with the IL-1 cytokine family. It binds and signals through the IL-1RL1/ST2 receptor activating NF-kappaB and MAP kinases. IL-33 induces production of Th2 cell related cytokines including IL-4, IL-5 and IL-13, and exerts multiple inflammation related bioactivities.

MOLECULAR MASS

Recombinant Human IL-33 is a 17.9 kDa protein containing 159 amino acid residues.

AMINO ACID SEQUENCE

SITGISPITE YLASLSTYND QSITFALEDE SYEIYVEDLK KDEKKDKVLL SYYESQHPSN ESGDGVGDKM LMVTLSPTKD FWLHANNKEH SVELHKCEKP LPDQAFFVLH NMHSNCVSFE CKTDPGVFIG VKDNHLALIK VDSSENLCTE NILFKLSET

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

Mouse

BIOACTIVITY

Activity determine by proliferation of Mouse D10S calculated at 2×10^7 units/mg or .05 ng/ml.

RESEARCH AREAS

Immune System; Inflammation

RECONSTITUTION

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

REFERENCES

Schmitz J, A Owyang, E Oldham, Y Song, E Murphy, TK McClanahan, G Zurawski, M Moshrefi, J Qin, X Li, DM Gorman, JF Bazan and RA Kastelein 2005 Immunity 23(5): 479-490.

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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