

TECHNICAL DATA SHEET

Recombinant Human IL-20 (Carrier-free)

Catalog Number: 21-7152

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-20 (Carrier-free)

DESCRIPTION

IL-20 belongs to the IL-10 cytokine family of structurally similar but functionally diverse members, and forms a subgroup with IL-19 and IL-24. IL-20 is produced by activated keratinocytes and monocytes. It regulates proliferation and differentiation in keratinocytes during inflammation. IL-20 is shown to signal through IL-20Ra/IL-20Rb (Type I) receptor complex, activating the STAT3 signaling pathway. IL-20 can also signal through an IL-20Rb/IL-22R (Type II) receptor complex. Both receptor complexes are shared with the other cytokines within the subgroup.

MOLECULAR MASS

Recombinant Human IL-20 is a homodimeric protein consisting of two 153 amino acid chains with a molecular weight of 35.2 kDa.

AMINO ACID SEQUENCE

MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD TKPANRCCLL RHLRLYLDR VFKNYQTPDH YTLRKISLA NSFLTICKDL
 RLCHAHMTCH CGEEMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

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

BIOACTIVITY

Following receptor-ligand interaction, the ability to activate STAT signaling is determined.

RESEARCH AREAS

Allergy, Immune System, Inflammation, Proliferation

RECONSTITUTION

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

REFERENCES

Rich BE and Kupper TS. 2001. *Curr Biol.* 11(13): R531-534. Dumoutier L, Leemans C, Lejeune D, Kotenko SV and Renault JC. 2001. *J. Immunol.* 167(7): 3545-3549. Sabat R, Wallace E, Endesfelder S and Wolk K. 2007. *Expert Opin Ther Targets.* 11(5): 601-612. Kunz S, Wolk K, Witte E, Witte K, Doecke WD, Volk HD, Sterry W, Asadullah K and Sabat R. 2006. *Exp Dermatol.* 15(12): 991-1004.

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