

TECHNICAL DATA SHEET

Recombinant Human IL-17F (Carrier-free)

Catalog Number: 21-8479

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-17F (Carrier-free)

DESCRIPTION

IL-17F is one of 6 isoforms of the IL-17 family. IL-17F has been shown to be important in inflammatory responses accompanying asthma. IL-17F binds to IL-17RA and IL-17RC receptor isoforms and activates through the MAP kinase pathway. IL-17F is produced by several immune cell lineages including Th17 cells, mast cells, and basophils. Like the entire IL-17 family, IL-17F is implicated in autoimmune inflammatory disease pathogenesis resulting from dysregulated or unmitigated inflammation processes.

MOLECULAR MASS

Recombinant Human IL-17F is a disulfide-linked homodimer of 30.1 kDa and composed of two 133 amino acid residue chains.

AMINO ACID SEQUENCE

MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRLGGIN
AQQKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ

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

N/A

BIOACTIVITY

Determined by its ability to induce IL-6 production by NHDF cells.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Immune System; Proliferation

RECONSTITUTION

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

REFERENCES

Kolls JK and A Lindén A 2004 Immunity 21: 467–76. Aggarwal S and AL Gurney 2002 J Leukoc Biol 71: 1–8. Kawaguchi M, F Kokubu, J Fujita, SK Huang, N Hizawa 2009 Inflamm Allergy Drug Targets 8: 383–389. Yao Z, SL Painter, WC Fanslow, D Ulrich, BM Macduff, MK Spriggs, RJ Armitage 1995 J Immunol 155: 5483–5486. Aggarwal S, N Ghilardi, MH Xie, FJ de Sauvage and AL Gurney 2003 J Biol Chem 278: 1910–1914. Kawaguchi M, M Adachi, N Oda, F Kokubu and SK Huang J Allergy Clin Immunol 114: 1265–1273.

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