

TECHNICAL DATA SHEET

Recombinant Human IL-12 p80 (Carrier-Free)

Catalog Number: 21-9123

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-12 p80 (Carrier-Free)

DESCRIPTION

IL-12 is a disulfide-linked heterodimeric protein (p70), composed of two subunits, p35 and p40, which are encoded by two different genes. Accumulating data indicates that p40 secretion precedes that of IL-12 expression. In addition, to its ability to covalently bind to p35 to form IL-12, p40 can bind to p19 to form IL-23, or it can form the homodimer designated IL-12 p80. Elevated levels of IL-12 p80 correlate to macrophage recruitment and increased inflammation in asthma and respiratory viral infection models.

MOLECULAR MASS

Recombinant Human IL-12 p80 is an 80.0 kDa disulfide linked homodimer consisting of two p40 chains of IL-12.

AMINO ACID SEQUENCE

p40 subunit: IWELKKDVYV VELDWPDPAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSLLL LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERVRG DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPKLNQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYSSSWSEW ASVPCS

SOURCE

Hi-5 Insect cells (BTI-Tn-5B1-4)

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

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

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

N/A

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Immune System, Inflammation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, Apoptosis, Cancer, Neurobiology, Allergy, Transplantation

RECONSTITUTION

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

REFERENCES

Grangeiro de Carvalho, E. Plasmodium falciparum-infected erythrocytes and IL-12/IL-18 induce diverse transcriptomes in human NK cells: IFN-α/β pathway versus TREM signaling. 2011. PLoS ONE; 6(9):e24963. Macdonald, S.H. Networked T cell death following macrophage infection by Mycobacterium tuberculosis. 2012. PLoS ONE; 7(6):e38488.

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