

TECHNICAL DATA SHEET

Recombinant Human IL-23 (Carrier-free)

Catalog Number: 21-8323

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-23 (Carrier-free)

DESCRIPTION

IL-23 is a disulfide-linked heterodimeric protein consisting of a p19 subunit unique to IL-23 and a p40 subunit that is shared with IL-12. IL-23 is proinflammatory and expressed by activated dendritic cells and macrophages. IL-23 drives the differentiation of Th17 cells in vivo and induces the proliferation of memory T cells.

MOLECULAR MASS

Recombinant Human IL-23 is a 53.5 kDa heterodimeric protein consisting of two subunits, p19 (170 amino acids) and p40 (306 amino acids).

AMINO ACID SEQUENCE

RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGDGP QGLRDNSQFC LQRIHQGLIF
YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSLLQPEG HHWETQQIPS LSPSQPWQRL LLRFKILRSL QAFVAVAARV FAHGAATLSP
IWELKKDVYV VELDWPDPAP GEMVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL
LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERVRG
DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPKLNQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT
FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYSSSWSEW ASVPCS

SOURCE

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

APPLICATIONS

Bioassay

PURITY

95 %

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

Measured by its ability to induce IL-17 secretion by mouse splenocytes.

RESEARCH AREAS

Cancer; Immune System; Inflammation; Allergy

RECONSTITUTION

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

REFERENCES

Aggarwal S, N Ghilardi, MH Xie, FJ de Sauvage and AL Gurney 2003 J Biol Chem 278(3): 1910-1914. Langrish CL, BS McKenzie, NJ Wilson, R de Waal Malefyt, RA Kastelein and DJ Cua 2004 Immunol Rev 202: 96-105. McKenzie BS, RA Kastelein and CJ Cua 2006 Trends Immunol 27(1): 17-23.

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.

For Research Use Only.
Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.