

TECHNICAL DATA SHEET

Recombinant Human IL-15 (Carrier-free)

Catalog Number: 21-8157

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-15 (Carrier-free)

DESCRIPTION

IL-15 is constitutively expressed by multiple cell types including monocytes, macrophages, dendritic cells, keratinocytes, fibroblasts, nerve cells. It is a member of the IL-2 family and shares similarities to IL-2. IL-15 has a key role in a number of areas spanning innate and adaptive immunity. IL-15 has a primary target of T cells but also acts on NK cells causing both cell types to proliferate. Elevated quantities of IL-15 are associated with its role in autoimmune diseases and retroviral disease, at least HIV-1 and HTLV-1.

MOLECULAR MASS

Recombinant Human IL-15 is a 12.9 kDa protein consisting of 114 amino acid residues.

AMINO ACID SEQUENCE

MNWNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV ISLESGDASI HDTVENLIL ANNSLSSNGN VTESGCKECE
ELEEKNIKEF LQSFVHIVQM FINTS

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

Monkey, Mouse, Bacteria, Rat, Cow

BIOACTIVITY

ED₅₀ calculated at ≤0.5 ng/ml, corresponding to a specific activity of ≥2 x 10⁶ units/mg by proliferation assays of CTLL-2 cells.

RESEARCH AREAS

AIDS/HIV; Apoptosis; Cancer; Cell Culture; Immune System; Inflammation; Stem Cells & Differentiation

RECONSTITUTION

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

REFERENCES

Yokoyama S, Watanabe N, Sato N, Perera PY, Filkoski L, Tanaka T, Miyasaka M, Waldmann TA, Hiroi T and Perera LP 2009 Proc Natl Acad Sci USA 106 (37): 15849–54.

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