

TECHNICAL DATA SHEET

Recombinant Human sIL-6Ra (Carrier-free)

Catalog Number: 21-9243

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human sIL-6Ra (Carrier-free)

DESCRIPTION

The IL-6 receptor complex is made up of 2 subunits, IL-6R alpha (CD126) and the shared signaling receptor gp130. IL-6 first binds to the low-affinity IL-6R alpha, followed by association with gp130 which then transduces the signal. IL-6R alpha is expressed by many cells including fibroblasts, macrophages and T cells.

MOLECULAR MASS

Recombinant Human sIL-6R alpha is a 37.6 kDa protein consisting of the extracellular domain of the IL-6R alpha chain (339 amino acid residues).

AMINO ACID SEQUENCE

LAPRRCPAQE VARGVLTSLP GDSVTLTCEPG VEPEDNATVH WVLKPAAGS HPSRWAGMGR RLLLRVQLH DSGNYSCYRA GRPAGTVHLL
VDVPPPEEPQL SCFRKSPLSN VVCEWGPST PSLTTKAVLL VRKFQNSPAE DFQEPQYSQ ESQKFSCQLA VPEGDSSFYI VSMCVASSVG
SKFSKTQTFQ GCGILQPDPP ANITVAVAR NPRWLSVTWQ DPHSWNSSFY RLFELRYRA ERSKTFTTWM VKDLQHHCVI HDAWSGLRHV
VQLRAQEEFG QGEWSEWSPE AMGTPWTESR SPPAENEVST PMQALTTNKD DDNILFRDSA NATSLPVQD

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

≥95 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by HPLC 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

The ability to increase the IL-6 induced growth inhibition of mouse M1 cells is measured. The expected ED₅₀ for this effect, in the presence of 20 ng/ml recombinant human IL-6, is ≤ 5.0 ng/ml.

RESEARCH AREAS

Inflammation, Neurobiology, Receptors

RECONSTITUTION

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

REFERENCES

Boulanger MJ, Chow DC, Brevnova EE and Garcia KC. 2003. Science. 300(5628): 2101-2014. Kishimoto T, Akira S and Taga T. 1992. Int J Immunopharmacol. 14(3): 431-438.

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