

TECHNICAL DATA SHEET

Recombinant Human sIL-6Ra (Carrier-free)

Catalog Number: 21-7109

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 GDSVTLTCPG VEPEDNATVH WVLKPAAGS HPSRWAGMGR RLLLRVQLH DSGNYSCYRA
 GRPAGTVHLL VDVPEEPQL SCFRKSPLSN VVCEWGPRST PSLTTKAVLL VRKFQNSPAE DFQEPCQYSQ ESQKFSCQLA
 VPEGDSSFYI VSMCVASSVG SKFSKTQTFQ GCGILQPDPP ANITVTAVAR NPRWLSVTWQ DPHSWNSSFY RLR FELRYRA
 ERSKTFTTWM VKDLQHHCVI HDAWSGLRHV VQLRAQEEFG QGEWSEWSPE AMGTPWTESR SPPAENEVST PMQALTTNKD
 DDNILFRDSA NATSLPVQD

SOURCE

HEK293 cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy 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

Mouse, Rat

BIOACTIVITY

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