

TECHNICAL DATA SHEET

Recombinant Human sCD30 Ligand (Carrier-free)

Catalog Number: 21-7143

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human sCD30 Ligand (Carrier-free)

DESCRIPTION

CD30 ligand, also known as CD153 and TNFSF8, is a Type II glycoprotein and a member of the TNF superfamily. It is expressed on the surface of activated B cell subsets, T cells and monocytes. In the presence of CD30, CD30L is cleaved and the soluble form binds to CD30+ cells which can induce apoptosis in some cases. CD30L/CD30 interactions also generate signaling pathways leading to either cell death or proliferation. Studies suggest a role for CD30L/CD30 signaling in Th1, Th2 and Th17 responses, as well as in certain diseases such as allergic inflammation, rheumatoid arthritis and Hodgkin's lymphoma.

MOLECULAR MASS

Recombinant Human soluble CD30L consists of 188 amino acids, corresponding to the extracellular domain plus an 8 residue N-terminal His-Tag. It has an approximate molecular weight of 21.3 kDa.

AMINO ACID SEQUENCE

HHHHHHHPS PGGSGGQRTD SIPNSPDNVP LKGGNCSEDL LCILKRAPFK KSWAYLQVAK HLNKTKLSWN KDGILHGVRY QDGNLVIQFP GLYFIICQLQ FLVQCPNNSV DLKLELLINK HIKKQALVTV CESGMQTKHV YQNLSQFLLD YLQVNTTISV NVDTFQYIDT STFPLENVLS IFLYSNSD

SOURCE

CHO 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

BIOACTIVITY

Using a concentration range of 10.0-25.0 ng/ml, the ability to stimulate human IL-8 production in human PBMC is determined. Results may vary due to differences between PBMC donors.

RESEARCH AREAS

Cancer, TNF Superfamily, Immune System, Allergy, Inflammation, Diabetes

RECONSTITUTION

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

REFERENCES

Kennedy MK, Willis CR and Armitage RJ. 2006. Immunology. 118(2): 143-152. Oflazoglu E, Grewal IS and Gerber H. 2009. Adv Exp Med Biol. 647: 174-185
 Tinazzi E, Barbieri A, Rigo A, Patuzzo G, Beri R, Gerli R, Argentino G, Puccetti A and Lunardi C. 2014. Immunol Lett. 161(2): 236-240. Bengtsson A. 2001. Allergy. 56(7): 593-603. Sun X, Yamada H, Shibata K, Muta H, Tani K, Podack ER and Yoshikai Y. 2010. J Immunol. 185(4): 2222-2230. Wiley SR, Goodwin RG and Smith CA. 1996. J Immunol. 157(8): 3635-3639.

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