

TECHNICAL DATA SHEET

Recombinant Human sCD27 Ligand (Carrier-free)

Catalog Number: 21-7142

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human sCD27 Ligand (Carrier-free)

DESCRIPTION

CD27 ligand, also known as CD70, is a type II transmembrane protein belonging to the TNF superfamily. It is predominantly expressed on NK cells and upon activation is induced on T and B lymphocytes and certain dendritic cell subsets. CD27L is an important co-stimulatory molecule involved in proliferation and clonal expansion of T cells, and provides an alternative signal for T cell activation. Interactions between CD27 and its ligand particularly enhance the CD8+ T cell response, but may also play a role in CD4+ T cell responses.

MOLECULAR MASS

Recombinant Human sCD27L has a calculated molecular weight of 18.8 kDa and consists of the 155 amino acid extracellular domain plus an N-terminal His-Tag.

AMINO ACID SEQUENCE

HHHHHHHPS PGGSGGQRFA QAQQQLPLES LGWDVAELQL NHTGPQQDPR LYWQGGPALG RSFLHGPELD KGQLRIHRDG IYMVHIQVTL AICSSTTASR HHPTTLAVGI CSPASRSISL LRLSFHQGCT IASQRLTPLA RGDTLCTNLT GTLLPSRNTD ETFFGVQWVR P

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

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

TNF Superfamily, Immune System

RECONSTITUTION

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

REFERENCES

Hintzen RQ, Lens SM, Beckmann MP, Goodwin RG, Lynch D and van Lier RA. 1994. J Immunol. 152(4): 1762-73. Hintzen RQ, Lens SM, Lammers K, Kuiper H, Beckmann MP and van Lier RA. 1995. J Immunol. 154(6): 2612-2623. Thorp AW and Schringer DL. 2011. Ann Emerg Med. 57(2): 165-168. Hashimoto-Okada M, Kitawaki T, Kadowaki N, Iwata S, Morimoto C, Hori T and Uchiyama T. 2009. Int Immunol. 21(8): 891-904. Arimoto-Miyamoto K, Kadowaki N, Kitawaki T, Iwata S, Morimoto C and Uchiyama T. 2010. Immunology. 130(1): 137-149.

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