



Recombinant Human CD30 Ligand, soluble

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	S01-042
Size:	50 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	944
Synonyms:	TNFSF8, CD153, CD30L; TNFSF8 tumor necrosis factor (ligand) superfamily, member 8

The type-II membrane-associated glycoprotein CD30 ligand (CD30L) is a protein belonging to the TNF superfamily. The CD30L gene encodes for a 234 amino acid type II transmembrane protein, which contains a 37 amino acid cytoplasmic sequence, a 25 amino acid transmembrane domain and a 172 amino acid extracellular domain. The protein is expressed primarily on certain B cells, T cells, and monocytes. CD30L binds specifically to CD30 (receptor), which is expressed on activated, but not resting, B and T cells, in lymphomas and various chronically inflamed tissues. CD30L/CD30 interactions initiate a signaling cascade that can ultimately lead to the activation of NF-KappaB. CD30L/CD30 signaling exerts pleiotropic effects on normal cells, including cell death, differentiation, or cell division. Certain diseases, including Hodgkins's lymphoma, allergic inflammation, diabetes (in NOD mice), and mycobacterial infection can also be affected by CD30L/CD30 signaling. The provided recombinant human soluble CD30L (sCD30L) is a 188 amino acid polypeptide corresponding to the extracellular domain, and contains an 8 residue N-terminal His -Tag.

Sequence

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

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Database References

Protein RefSeq:	NP_001993.2
Uniprot ID:	P32971
mRNA RefSeq:	NM_001244.3

Product Specifications

Expressed in	CHO cells
Purity	≥ 98% by SDS-PAGE gel and HPLC analyses.
Tag	His-Tag
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	188
MW:	21.3 kDa

Biological Activity: Determined by its ability to stimulate human IL-8 production by human PBMC using a concentration range of 10.0-25.0 ng/ml. Note: Results may vary with PBMC donors.



AVOID REPEATED FREEZE AND THAW CYCLES!