sCD30 Ligand Human Chinese Hamster Ovary Cells (CHO)

Product Data Sheet

Type: Recombinant
Source: Chinese Hamster Ovary Cells (CHO)
Species: Human
Other names: TNFSF8, CD153, CD30L

Cat. No.:

RBG10099010	(10 µg)
RBG10099050	(50 µg)
RBG10099100	(100 µg)

Description

CD30 ligand (CD30L) is a type-II membrane-associated glycoprotein belonging to the TNF superfamily and 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-?B. CD30L/CD30 signaling exerts pleiotropic effects on normal cells, including cell death, differentiation, and cell division. Certain diseases, including Hodgkin's lymphoma, allergic inflammation, diabetes (in NOD mice), and mycobacterial infection can also be affected by CD30L/CD30 signaling. 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. 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. The calculated molecular weight of Recombinant Human sCD30L is 21.3 kDa.

Research topic

Asthma and allergic rhinitis, Diabetology - Other Relevant Products, Immune Response, Infection and Inflammation, Oncology

Amino Acid Sequence

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

Source

Chinese Hamster Ovary Cells (CHO)

Purity

98%

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.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C

Storage, Stability/Shelf Life

-20°C

HEADQUARTERS: BioVendor Laboratorní medicína, a.s.	Karasek 1767/1	621 00 Brno CZECH REPUBLIC	Phone: +420-549-124-185 Fax: +420-549-211-460	E-mail: Web:	info@biovendor.com sales@biovendor.com www.biovendor.com
AUSTRIA: BioVendor GesmbH	Nußdorfer Straße 20/10	1090 Vienna AUSTRIA	Phone: +43-1-89090-25 Fax: +43-1-89090-2515	E-mail:	infoAustria@biovendor.com
GERMANY, SWITZERLAND: BioVendor GmbH	Otto-Hahn-Straße 16	34123 Kassel GERMANY	Phone: +49-6221-433-9100 Fax: +49-6221-433-9111	E-mail:	infoEU@biovendor.com
USA, CANADA AND MEXICO: BioVendor LLC	128 Bingham Rd. Suite 1300	Asheville, NC 28806 USA	Phone: +1-828-575-9250 +1-800-404-7807 Fax: +1-828-575-9251	E-mail:	infoUSA@biovendor.com