

## CD30/TNFRSF8 Protein, Mouse, Recombinant (hFc)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | Cd30;Ki;tumor necrosis factor receptor superfamily, member 8;D1S166E;Ki-1  |
| Protein Construction: | A DNA sequence encoding the mouse TNFRSF8 (NP_033427.1) (Met1-Thr258) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Phe 19 |
| Species:              | Mouse  |
| Expression Host:      | HEK293 Cells   |
| Accession:            | Q60846   |
| Molecular Weight:     | 51.92 kDa (predicted)  |

### QC Testing

|                      |  |
|----------------------|--|
| Biological Activity: | Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.   |
| Purity:              | > 95 % as determined by SDS-PAGE.  |
| Endotoxin:           | < 1.0 EU/μg of the protein as determined by the LAL method.  |
| Formulation:         | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization. |

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**  
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**  
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CD30, also known as TNFRSF8, is a cell membrane protein of the tumor necrosis factor receptor (TNFR) superfamily. CD30 protein is expressed by activated, but not resting, T and B cells. CD30 can regulate proliferation of lymphocytes and may also play an important role in human immunodeficiency virus replication. As a regulator of apoptosis, CD30 protein induces cell death or proliferation, depending on the cell type, and has been shown to limit the proliferative potential of autoreactive CD8 effector T cells and protect the body against autoimmunity.

CD30 protein expression is upregulated in various hematological malignancies, including Reed-Sternberg cells in Hodgkin's disease (HD), anaplastic large cell lymphoma (ALCL) and subsets of Non-Hodgkin's lymphomas (NHLs), and CD30 is also linked to leukocytes in patients with chronic inflammatory diseases, including lupus erythematosus, asthma, rheumatoid arthritis and atopic dermatitis (AD). Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### Reference

- Rossi FM, et al. (2001) CD30L up-regulates CD30 and IL-4 expression by T cells. *FEBS Lett.* 508(3): 418-22.
- Trovato M, et al. (2001) Expression of CD30 ligand and CD30 receptor in normal thyroid and benign and malignant thyroid nodules. *Thyroid.* 11(7): 621-8.
- Ekstrom ES, et al. (2001) Presence of CD30(+) and CD30L(+) cells in human placenta and soluble CD30 levels in cord blood are independent of maternal atopy. *Placenta.* 22(4): 372-9.
- Tang C, et al. (2008) A novel role of CD30L/CD30 signaling by T-T cell interaction in Th1 response against mycobacterial infection. *J Immunol.* 181(9): 6316-27.
- Sun X, et al. (2008) A critical role of CD30 ligand/CD30 in controlling inflammatory bowel diseases in mice. *Gastroenterology.* 134(2): 447-58.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481