

Human CD30 / TNFRSF8 Protein (His Tag)

Catalog Number: 10777-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD30; D1S166E; Ki-1

Protein Construction:

A DNA sequence encoding the human TNFRSF8 (NP_001234.2) extracellular domain (Met 1-Lys 379) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

Measured by its binding ability in a functional ELISA. Immobilized Human CD30L hFc (Cat:10040-H01H) at 2 µg/mL (100 µL/well) can bind Human CD30/TNFRSF8 His (Cat:10777-H08H), the EC₅₀ of Human CD30/TNFRSF8 His is 30-180 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Phe 19

Molecular Mass:

The secreted recombinant human TNFRSF8 consists of 372 amino acids and has a predicted molecular mass of 40 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhTNFRSF8 is approximately 75-90 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

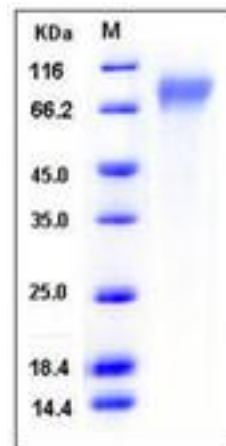
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CD3, also known as TNFRSF8, is a cell membrane protein of the tumor necrosis factor receptor (TNFR) superfamily. CD3 protein is expressed by activated, but not resting, T and B cells. CD3 can regulate proliferation of lymphocytes and may also play an important role in human immunodeficiency virus replication. As a regulator of apoptosis, CD3 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. CD3 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 CD3 is also linked to leukocytes in patients with chronic inflammatory diseases, including lupus erythematosus, asthma, rheumatoid arthritis and atopic dermatitis (AD).

References

1. Rossi FM, et al. (2001) CD30L up-regulates CD30 and IL-4 expression by T cells. *FEBS Lett.* 508(3): 418-22.
2. 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.
3. 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.

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