PRODUCT DATA SHEET

Bioworld Technology,Inc.

CD258 Recombinant Protein

Catalog: NCP0400 Host: E.coli Tag: His-tag

BackGround:

Tumor necrosis factor superfamily member 14 (TNFSF14), also known as CD258 and LIGHT, is a cell surface type II transmembrane protein that is expressed as a homotrimer. The extracellular region can be cleaved to generate a soluble cytokine. TNFSF14 is a ligand for the receptors herpesvirus entry mediator (HVEM) and lymphotoxin receptor (LTR). TNFSF14 is expressed on activated NK cells, activated T cells, activated monocytes, immature DCs, and mast cells. TNFSF14 interactions with HVEM induce potent co-stimulatory signaling in T cells and trigger NK cells to produce IFN-γ via NF-κB RelA/p50 pathway signaling. TNFRSF14 produced by tumor-sensing NK cells aids in DC maturation, enabling de novo anti-tumor adaptive immune responses. TNFSF14-HVEM interactions are considered the main drivers of anti-tumor immune responses, whereas TNFSF14-LTR interactions have been characterized as maintaining the infrastructure that supports the anti-tumor response via lymphoid development and cancer cells' susceptibility to the immune response. TNFSF14 induces the normalization of tumor vasculature, sensitizes tumor cells to IFN-γ-mediated apoptosis, and results in a more inflamed tumor microenvironment (TME). Due to its effects on the TME and anti-tumor immune cell responses, TNFSF14 is being investigated as a target for immunotherapeutic intervention in cancer. TNFSF14 has also been implicated in the development and pathogenesis of inflammatory bowel disease and airway remodeling leading to asthma.

Product:

PBS, 4M Urea, PH7.4

Molecular Weight:

~20kDa

Swiss-Prot:

O43557

Purification&Purity:

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Restriction Sites:

NdeI-XhoI

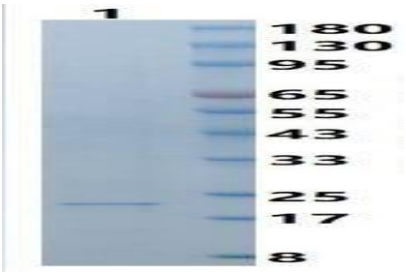
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Expression Vector:

pet-22b(+)

DATA:



Note:

For research use only, not for use in diagnostic procedure.

MADE IN CHINA

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