For Research Use Only

Recombinant Human TNFRSF9 protein (Myc Tag, His Tag)

www.ptgcn.com

Catalog Number: Eg0016

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: Myc Tag, His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human TNFRSF9 protein Leu24-Gln186 (Accession# Q07011) with a Myc tag and a His tag at the C-terminus.

GeneID:
3604

Accession:
Q07011

Predicted Molecular Mass:
22.9 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD137, also known as TNFRSF9 or 4-1BB, is an inducible T cell surface receptor which belongs to the tumor necrosis factor receptor superfamily. CD137 is a transmembrane protein expressed on the surface of activated T-cells. In addition, activation-dependent expression of CD137 has also been found in B lymphocytes, monocytes, and diverse nonlymphoid cell types. CD137 provides a co-stimulatory signal that enhances the survival, and differentiation of cells, and has a crucial role in the development of CD8 cytotoxic T cells and anti-tumor immunity. Soluble forms of CD137 (sCD137) are generated by differential splicing and are released by activated lymphocytes. Elevated serum sCD137 level has been associated with some diseases, including rheumatoid arthritis, multiple sclerosis, chronic lymphocytic leukemia, and acute coronary syndrome.

References

1.Vinay, D S et al. Seminars in immunology vol. 10,6 (1998): 481-9.
2.Schwarz, H et al. Blood vol. 85,4 (1995): 1043-52.
3.Nakaima, Yukana et al. PloS one vol. 8,5 (2013): e64425.
4.Michel, J et al. European journal of immunology vol. 28,1 (1998): 290-5.
5.Sharief, M K et al. European journal of neurology vol. 9,1 (2002): 49-54.
6.Furtner, M et al. Leukemia vol. 19,5 (2005): 883-5.
7.Yan, Jinchuan et al. Clinics (Sao Paulo, Brazil) vol. 68,2 (2013): 193-8.

Synonyms

4 1BB, 4 1BB ligand receptor, 4-1BB ligand receptor, CD137, ILA

Selected Validation Data