Rhesus CD137 / 4-1BB Protein (Fc Tag)

Catalog Number: 90847-K02H

General Information

Gene Name Synonym:
TNFRSF9

Protein Construction:
A DNA sequence encoding the rhesus TNFRSF9 (NP_001253057.1) (Met1-Gln186) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Rhesus
Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Bio Activity:

1. Measured by its binding ability in a functional ELISA. 2. Immobilized rhesus TNFRSF9-Fc (Cat: 90847-K02H) at 10 μg/mL (100 μL/well) can bind biotinylated human TNFSF9 (Cat: 15693-H01H), the EC50 of biotinylated human TNFSF9 is 20-100 ng/mL.

Endotoxin:
< 1.0 EU per μg 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: Leu 24

Molecular Mass:
The recombinant rhesus TNFRSF9 consists of 401 amino acids and predicts a molecular mass of 44 kDa.

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

CD137 (also known as 4-1BB) is a surface co-stimulatory glycoprotein originally described as present on activated T lymphocytes, which belongs to the tumor necrosis factor (TNF) receptor superfamily. It is expressed mainly on activated CD4+ and CD8+ T cells, and binds to a high-affinity ligand (4-1BBL) expressed on several antigen-presenting cells such as macrophages and activated B cells. Upon ligand binding, 4-1BB is associated with the tumor necrosis factor receptor–associated factors (TRAFs), the adaptor protein which mediates downstream signaling events including the activation of NF-kappaB and cytokine production. 4-1BB signaling either by binding to 4-1BBL or by antibody ligation delivers signals for T-cell activation and growth, as well as monocyte proliferation and B-cell survival, and plays an important role in the amplification of T cell-mediated immune responses. In addition, CD137 and CD137L are expressed in different human primary tumor tissues, suggesting that they may influence the progression of tumors. Crosslinking of CD137 on activated T cells has shown promise in enhancing anti-tumor immune responses in murine models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials.

References


Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 Tel: 215-583-7898
Global Customer: Fax: +86-10-5862-8288 Tel:+86-400-890-9989 http://www.sinobiological.com