Active Recombinant Monkey TNFRSF9 Protein, His-tagged, FITC conjugated

Cat. No. TNFRSF9-550RF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FITC conjugated recombinant Rhesus TNFRSF9 (NP_001253057.1) (Met1-Gln186) was expressed with a polyhistidine tag at the C-terminus.
Species	Monkey
Source	HEK293
ProteinLength	Met1-Gln186 174
Description	CD137 (also known as 4-1BB) is a surface co-stimulatory glycoprotein originally described as present on activated T lymph centigradeytes, 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 ass centigradeiated with the tumor necrosis factor receptor–ass centigradeiated 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 mon centigradeyte 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

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	in enhancing anti-tumor immune responses in murine models, and agonistic anti-CD137 antibodies are currently being tested in phase I clinical trials.
Form	Lyophilized
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rhesus TNFRSF9-His at 10 μg/mL (100 μL/well) can bind human TNFSF9, the EC50 of human TNFSF9 is 10-60 ng/mL.
Molecular Mass	18.7 kDa
N-terminal Sequence Analysis	Leu 24
Endotoxin	< 1.0 EU/ μg protein as determined by the LAL method.
Purity	> (40.7+53.4) % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with FITC via amines Excitation source: 488 nm spectral line, argon-ion laser Excitation Wavelength: 488 nm Emission Wavelength: 535 nm
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

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Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	FITC

GENE INFORMATION

Gene Name	TNFRSF9 TNF receptor superfamily member 9 [Macaca mulatta (Rhesus monkey)]
Official Symbol	TNFRSF9
Synonyms	TNFRSF9; TNF receptor superfamily member 9; tumor necrosis factor receptor superfamily member 9; tumor necrosis factor receptor superfamily, member 9
Gene ID	708281
mRNA Refseq	NM_001266128
Protein Refseq	NP_001253057
UniProt ID	F6W5G6

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