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Recombinant Rat TNFR1/TNFRSF1A Protein (Fc Tag)

Catalog No. PKSR030339

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms TNFRSF1A;Tnfr-1;Tnfr1

Species Rat

HEK293 Cells **Expression Host** Met1-Ala211 Sequence Accession P22934 Calculated Molecular Weight 47.9 kDa Observed molecular weight 59 kDa Tag C-hFc

Bioactivity 1. Measured by its ability to inhibit TNF α -mediated cytotoxicity in L-929 mouse

> fibroblast cells in the presence of metabolic inhibitor actinomycin D. The ED50 for this effect is typically 3-30 ng/mL in the presence of 0.05 ng/mL of ratTNF α . 2. Immobilized mouse TNFa (80-235) at 10 µg/ml (100 µl/well) can bind rat TNFRSF1A-Fc, The EC50 of rat TNFRSF1A-Fc is 0.08-0.20 µg/ml.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

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

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

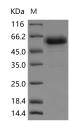
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

For Research Use Only

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Background

The cluster of differentiation (CD) system is commonly used as cell markers in immunophynotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD120a (cluste of differentiation 120a), also known as TNFR1 / TNFRSF1A, is a member of CD family, tumor necrosis factor receptor superfamily. CD120a is one of the most primary receptors for the tumor necrosis factoralpha. It has been shown to be localized to both plasma membrane lipid rafts and the trans golgi complex with the help of the death domain (DD). CD120a can activate the transcription factor NF-κB, mediate apoptosis, and regulate inflammation processes.

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