

Recombinant Human TNFRSF21/DR6/CD358 Protein

Catalog No.: RP01349 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	27242	O75509

Tags

C-hFc&His

Synonyms

TNFRSF21;BM-018;CD358;DR6

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
60.37 kDa	95-110 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.


Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Tumor necrosis factor receptor superfamily member 21 (TNFRSF21) is also known as death receptor 6 (DR6), which is a member of the TNF-receptor superfamily. This type I transmembrane receptor possesses four extracellular cysteine-rich motifs and a cytoplasmic death domain. DR6 is an extensively posttranslationally modified transmembrane protein and that N- and O-glycosylations of amino acids in its extracellular part. DR6 interacts with the adaptor protein TRADD and mediates signal transduction through its death domain, and expression of DR6 in mammalian cells induces activation of both NF-κB and JNK and cell apoptosis. DR6 knockout mice have enhanced CD4+ T cell proliferation and Th2 cytokine production, suggested that DR6 serves as an important regulatory molecule in T-helper cell activation, and is involved in inflammation and immune regulation. DR6 is expressed ubiquitously with high expression in lymphoid organs, heart, brain and pancreas. Some tumor cells overexpress DR6, typically in conjunction with elevated anti-apoptosis molecules. DR6 may also be involved in tumor cell survival and immune evasion, which is subject to future investigations.

Basic Information

Description

Active Recombinant Human TNFRSF21/DR6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln42-Leu350) of human TNFRSF21/DR6 (Accession #NP_055267.1) fused with a Fc, 6×His tag at the C-terminus.

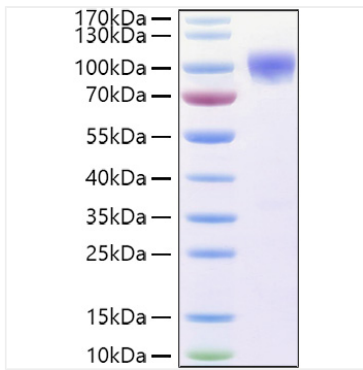
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human APP at 10 μg/mL (100 μL/well) can bind Mouse DR6 with a linear range of 0.002-1.8 μg/mL.

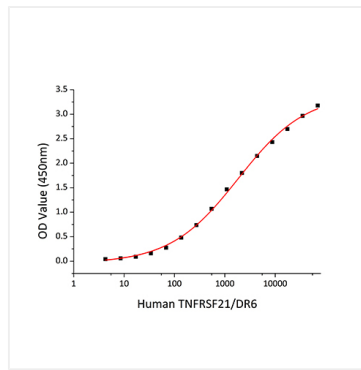
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Active Recombinant Human TNFRSF21/DR6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 95-100kDa.



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