

Cynomolgus TNFRSF21 / DR6 Protein (His Tag)

Catalog Number: 90331-C08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

TNFRSF21

Protein Construction:

A DNA sequence encoding the cynomolgus TNFRSF21 (XP_005552846.1) (Met1-Leu350) was expressed with a polyhistidine tag at the C-terminus.

Source: Cynomolgus

Expression Host: HEK293 Cells

QC Testing

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

Bio Activity:

Measured by its ability to bind with APP-Fc(Cat:10703-H02H) in a functional ELISA.

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: Gln 42

Molecular Mass:

The recombinant cynomolgus TNFRSF21 consists 320 amino acids and predicts a molecular mass of 35 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:

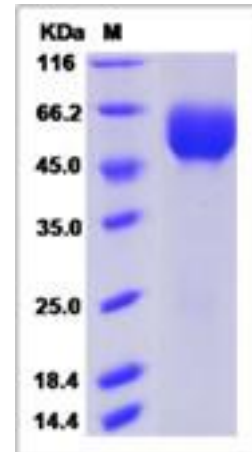
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

TNFRSF21 (death receptor-6, DR6) is an orphan TNF receptor superfamily member and belongs to a subgroup of receptors called death receptors. 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-kappaB 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.

References

1. Pan G, *et al.* (1998) Identification and functional characterization of DR6, a novel death domain-containing TNF receptor. *FEBS Lett.* 431(3): 351-6.
2. Benschop R, *et al.* (2009) Tumor necrosis factor receptor superfamily member 21: TNFR-related death receptor-6, DR6. *Adv Exp Med Biol.* 647: 186-94.
3. Klma M, *et al.* (2009) Functional analysis of the posttranslational modifications of the death receptor 6. *Biochim Biophys Acta.* 1793(10): 1579-87.

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