

Active Recombinant Human & Mouse TNFRSF1A Protein, His tagged

Cat. No. TNFRSF1A-11161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human & Mouse TNFR1 (30-82 & 83-212) Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 30 - Arg 82(Human TNFR1) & Glu 83 - Ala 212(Mouse TNFR1) (Accession # P19438-1 & P25118-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 30

Species

Human & Mouse

Source

HEK293

ProteinLength

Human TNFRSF1A: 30-82 aa Mouse Tnfrsf1a: 83-212 aa

Description

Tumor necrosis factor receptor 1 (TNF-R1) is also known as Tumor necrosis factor receptor superfamily member 1A (TNFRSF1A), TNFAR, CD antigen CD120a, which belongs to the tumor necrosis factor receptor superfamily. TNF-R1 contains one death domain and four TNFR-Cys repeats. TNF-R1 is the receptor of TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin - alpha. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. TNF-R1 contributes to the induction of non - cytotoxic TNF effects including anti-viral state and activation of the acid sphingomyelinase. Defects in TNFRSF1A are the cause of familial hibernian fever (FHF).

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Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Mouse TNF-alpha Protein, Fc Tag at 5 µg/mL (100 µL/well) can bind Human & Mouse TNFR1 (30-82 & 83-212) Protein, His Tag with a linear range of 0.5-16 ng/mL.
Molecular Mass	The protein has a calculated MW of 22.3 kDa. The protein migrates as 30-40 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
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.

GENE INFORMATION

Gene Name	TNFRSF1A tumor necrosis factor receptor superfamily, member 1A [Homo sapiens]
Official Symbol	TNFRSF1A
Synonyms	TNFRSF1A; tumor necrosis factor receptor superfamily, member 1A; TNFR1; tumor necrosis factor receptor superfamily member 1A; CD120a; TNF R; TNF R I; TNF R55;

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TNFAR; TNFR60; TNF-R1; TNF-RI; TNFR-I; tumor necrosis factor-alpha receptor; tumor necrosis factor receptor type 1; tumor necrosis factor binding protein 1; tumor necrosis factor receptor 1A isoform beta; FPF; p55; p60; TBP1; TNF-R; p55-R; TNFR55; TNF-R-I; TNF-R55; MGC19588;

Gene ID	7132
mRNA Refseq	NM_001065
Protein Refseq	NP_001056
MIM	191190
UniProt ID	P19438
Gene Name 2	Tnfrsf1a tumor necrosis factor receptor superfamily, member 1a [Mus musculus]
Official Symbol 2	Tnfrsf1a
Synonyms 2	TNFRSF1A; tumor necrosis factor receptor superfamily, member 1a; tumor necrosis factor receptor superfamily member 1A; p60; TNF-RI; TNFR-I; TNF-alpha-R1; TNF receptor alpha chain; tumor necrosis factor receptor 1; tumor necrosis factor receptor type I; FPF; p55; TNF-R; TNFAR; TNFRI; Tnfr1; p55-R; CD120a; TNF-R1; TNFR60; Tnfr-2; TNF-R-I; TNF-R55; TNFRp55; TNF-alphaR1; TNFalpha-R1;
Gene ID 2	21937
mRNA Refseq 2	NM_011609
Protein Refseq 2	NP_035739

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UniProt ID 2

P25118

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