

Recombinant Human TNFRSF10B, Fc-tagged

Cat. No. TNFRSF10B-28127TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 56-182 of Human DR5 fused to the Fc region of human IgG1 expressed in modified human 293 cells, 40-50kDa.
Species	Human
ProteinLength	56-182 a.a.
Description	The protein encoded by this gene is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL/APO-2L), and transduces an apoptosis signal. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. Two transcript variants encoding different isoforms and one non-coding transcript have been found for this gene.
Conjugation	Fc
Tissue specificity	Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLa S3, K562, HL-60, SW480, A549 and G361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, p
Biological activity	The ED50 of DR5 Fc Chimera is typically 38-40 ng/ml as measured by its ability to neutralize TRAIL mediated cytotoxicity using the human leukemic Jurkat cells.

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Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. When reconstituted in 0.5 ml sterile phosphate-buffered saline, the solution will contain 1% human serum albumin (HSA) and 10% trehalose.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Trehalose, 1% Human serum albumin
Storage	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	Theoretical sequence: ITQQDLAPQQRAAPQQKRSSPSEGLCPPG HHISEDGRDCIS CKYGQDYSTHWNDLLFCLRCTRCDSG EVELSPCTTTRNTVCQCEEGTFREEDSPE MCRKCRTGC PRGMVKVGDCPTWSDIECVHKEGSSNTKVDKKVEPKSCDKTHTCP PCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHEDPEVKFNWYVDGVE VHNATKPRREEQYNS TYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTI SKA KGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYP SDIAVEWESNGQPENNYKTTTP PVLDSGDSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSLSLSPGK
Sequence Similarities	Contains 1 death domain. Contains 3 TNFR-Cys repeats.

GENE INFORMATION

Gene Name	TNFRSF10B tumor necrosis factor receptor superfamily, member 10b [Homo sapiens]
Official Symbol	TNFRSF10B
Synonyms	TNFRSF10B; tumor necrosis factor receptor superfamily, member 10b; tumor necrosis factor receptor superfamily member 10B; CD262; DR5; KILLER; TRAIL R2; TRICK2A; TRICKB;

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Gene ID	8795
mRNA Refseq	NM_003842
Protein Refseq	NP_003833
MIM	603612
Uniprot ID	O14763
Chromosome Location	8p22-p21
Pathway	Activation of Pro-Caspase 8, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Apoptosis, organism-specific biosystem;
Function	TRAIL binding; cysteine-type endopeptidase activator activity involved in apoptotic process; protein binding; receptor activity;

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