

Recombinant Human TNFSF10, FLAG-tagged

Cat. No. TNFSF10-31604TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment from the extracellular region of Human TRAIL (amino acids 95-281) with a N terminal DDDDK tag; MWt: 23kDa by SDS PAGE.
Species	Human
Source	E.coli
ProteinLength	95-281 a.a.
Description	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Conjugation	FLAG
Molecular Weight	23.000kDa inclusive of tags

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Tissue specificity	Widespread; most predominant in spleen, lung and prostate.
Biological activity	Induces apoptosis of Human Jurkat T cells in a concentration range of 5-50ng/ml in the presence of 1µg/ml TNF Ligands Enhancer. In the absence of TNF Ligands Enhancer, TNFSF10-31604TH is poorly active.
Form	Lyophilised: Reconstitute with 100µl sterile water. PBS containing at least 0.1% BSA should be used for further dilutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	TSEETISTVQEKQQNISPLVRERGPQRVAAHITGRGRSNTLSSPN SKNEKALGRKI NSWESSRSGHSFLSNLHLRNGELVIHEKGFYIYSQTYFRFQEEIKENTKNDKQMVQ YIYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIQGGIFELKENDRIFVSVTNEHLID MDHEASFFGAFLVG
Sequence Similarities	Belongs to the tumor necrosis factor family.

GENE INFORMATION

Gene Name	TNFSF10 tumor necrosis factor (ligand) superfamily, member 10 [Homo sapiens]
Official Symbol	TNFSF10
Synonyms	TNFSF10; tumor necrosis factor (ligand) superfamily, member 10; tumor necrosis

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	factor ligand superfamily member 10; Apo 2L; CD253; TL2; TRAIL;
Gene ID	8743
mRNA Refseq	NM_001190942
Protein Refseq	NP_001177871
MIM	603598
Uniprot ID	P50591
Chromosome Location	3q26
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	cytokine activity; metal ion binding; protein binding; receptor binding; tumor necrosis factor receptor binding;