Recombinant Human TNFSF10 protein, His-tagged

Cat. No. TNFSF10-556H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF10 (P50591) aa. (Val114~Gly281) fused with His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Val114~Gly281
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.6kDa; Accurate Molecular Mass: 19kDa as determined

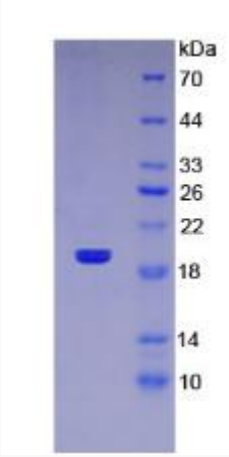
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	by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	Isoelectric point is 8.6.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl,pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	TNFSF10 TNF superfamily member 10 [Homo sapiens (human)]
Official Symbol	TNFSF10
Synonyms	TNFSF10; TNF superfamily member 10; TL2; APO2L; CD253; TRAIL; Apo-2L;

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	TNLG6A; tumor necrosis factor ligand superfamily member 10; Apo-2 ligand; TNF-related apoptosis inducing ligand TRAIL; chemokine tumor necrosis factor ligand superfamily member 10; tumor necrosis factor (ligand) family, member 10; tumor necrosis factor (ligand) superfamily, member 10; tumor necrosis factor apoptosis-inducing ligand splice variant delta; tumor necrosis factor ligand 6A; tumor necrosis factor superfamily member 10
Gene ID	8743
mRNA Refseq	NM_001190942.1
Protein Refseq	NP_001177871.1
UniProt ID	P50591
SDS-PAGE	

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