

Recombinant Human TNFRSF10B Protein (Met1-Glu182), HlgG1 Fc-tagged

Cat. No. TNFRSF10B-1148H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF10B Protein (AAB67103.1) (Met1-Glu182) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of human IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Glu182
Description	Tumor necrosis factor receptor superfamily, member 1b, official symbol TNFRSF1B, also known as Death receptor 5, CD262, TNF-related apoptosis-inducing ligand receptor 2 (TRAIL R2), 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 (TNFSF1/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. TRAIL R2/CD262/TNFRSF1B was purified independently as the only receptor for TRAIL detectable on the surface of two different human cell lines that undergo apoptosis upon stimulation with TRAIL. TRAIL R2/CD262/TNFRSF1B contains two extracellular cysteine-rich repeats, typical for TNF receptor (TNFR) family members, and a cytoplasmic death domain. TRAIL R2/CD262/TNFRSF1B mediates apoptosis via the intracellular adaptor molecule FADD/MORT1. TRAIL

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receptors can signal both death and gene transcription, functions reminiscent of those of TNFR1 and TRAMP, two other members of the death receptor family. Defects in TRAIL R2/CD262/TNFRSF1B may be a cause of head and neck squamous cell carcinomas (HNSCC) also known as squamous cell carcinoma of the head and neck.

Predicted N Terminal	Ile 56
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human TNFRSF10B consists of 365 amino acids and predicts a molecular mass of 41 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. 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 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	TNFRSF10B tumor necrosis factor receptor superfamily, member 10b [Homo sapiens]
Official Symbol	TNFRSF10B
Synonyms	TNFRSF10B; CD262; DR5; KILLER; TRAIL R2; TRICK2A; TRICKB; Fas-like protein; death receptor 5; TRICK2; ZTNFR9; TRAILR2; TRICK2B; TRAIL-R2; KILLER/DR5;
Gene ID	8795
mRNA Refseq	NM_003842
Protein Refseq	NP_003833
MIM	603612
UniProt ID	O14763

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