

Recombinant Human TNFRSF10B protein, Fc-tagged

Cat. No. TNFRSF10B-377H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFRSF10B protein (Ile56-Glu182), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	127
Description	Tumor necrosis factor receptor superfamily member 10B (TNFRSF10B) is also known as TNF-related apoptosis-inducing ligand receptor 2 (TRAILR2), Death receptor 5 (DR5), CD262, KILLER, is a member of the TNF-receptor superfamily, and contains an intracellular death domain. TNFRSF10B/DR-5 is widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines. TRAILR2/CD262/ DR5 is the receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD (a death domain containing adaptor protein) of TRAIL-R2/TNFRSF10B 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. CD262/DR5 Promotes the activation of NF-kappa-B. DR5 is essential for ER stress-induced apoptosis and is regulated by p53/TP53.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM NaCl, pH7.5, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 40.5 kDa. The protein migrates as 45-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TNFRSF10B
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; Fas-like protein; death receptor 5; cytotoxic TRAIL receptor-2; apoptosis inducing receptor TRAIL-R2; apoptosis inducing protein TRICK2A/2B; TNF-related apoptosis-inducing ligand receptor 2; death domain containing receptor for TRAIL/Apo-2L; tumor necrosis factor receptor-like protein ZTNFR9; p53-regulated DNA damage-inducible cell death receptor(killer); TRICK2; ZTNFR9; TRAILR2; TRICK2B; TRAIL-R2; KILLER/DR5

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Gene ID 8795

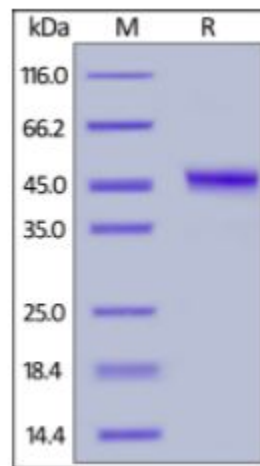
mRNA Refseq NM_003842

Protein Refseq NP_003833

MIM 603612

UniProt ID O14763

**SDS-PAGE of
TNFRSF10B-377H**



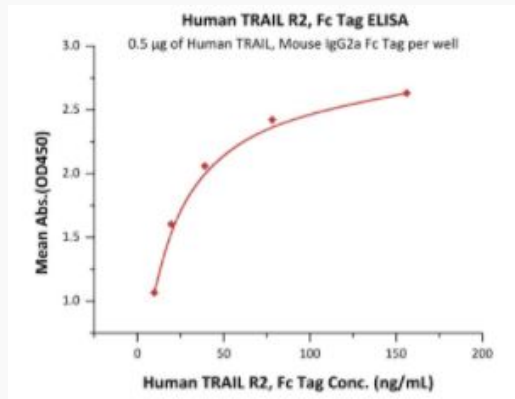
Human DR5, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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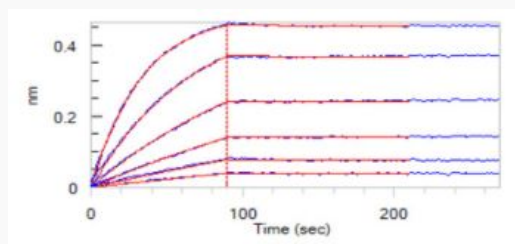
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**Bioactivity-ELISA of
TNFRSF10B-377H**



Immobilized Human TRAIL, Mouse IgG2a Fc Tag at 5 µg/mL (100 µL/well) can bind Human TRAIL R2, Fc Tag with a linear range of 0.6-20 ng/mL (QC tested).

**Bioactivity-BLI of
TNFRSF10B-377H**



Loaded Human TRAILR2, Fc Tag on AHC Biosensor, can bind Human TRAIL, His Tag with an affinity constant of 0.146 nM as determined in BLI assay (Routinely tested).

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