

Recombinant Human TNF Ligand Receptor Superfamily Member 10B (rh TNFRSF10B / CD262)

Synonyms: Death receptor 5, TNF-related apoptosis-inducing ligand receptor 2, TRAIL-R2, DR5, KILLER, TRICK2, ZTNFR9

Introduction: TRAIL Receptor-1 (DR4) and TRAIL Receptor-2(DR5) are members of the TNFR superfamily of transmembrane proteins and contain a cytoplasmic "death domain", which is capable of activating the cell's apoptotic machinery. These receptors are activated by binding to either membrane anchored or soluble TRAIL/Apo2L.

Description: Recombinant human TNFR10B produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 133 amino acids and having a molecular mass of 14.9 KDa. The TNFRSF12A is purified by proprietary chromatographic techniques.

Source: *Escherichia coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh TNFRSF10B in sterile H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh TNFRSF10B although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh TNFRSF10B should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE.

Amino Acid Sequence:

MESALITQQD LAPQQRVAPQ QKRSSPSEGL CPPGHHISED GRDCISCKYG QDYSTHWNDL LFCLRCTRCD SGEVELSPCT TTRNTVCQCE EGTFREEDSP EMCRKCRTGC PRGMVKVGDC TPWSDIECVH KES.

Biological Activity: The TNFRSF10B reduced the production of LPS-induced TNF by its ability to neutralize endogenous TRAIL in fresh human PBMC. In this assay, endogenous TRAIL is induced during a 24 hour exposure to LPS (10ng/mL) but in the presence of TNFRSF10B, TRAIL-induced TNF is suppressed.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	10 µg	Cat.N°	11344953
<i>medium</i>	50 µg	Cat.N°	11344955

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