

DATASHEET
Version 20181206**sTRAIL R-2/TNFRSF10B, Human****Cat. No.:** Z02934-1**Size:** 1.0 mg

Synonyms: Tumor necrosis factor receptor superfamily member 10B, Death receptor 5, TNF-related apoptosis-inducing ligand receptor 2, TRAIL receptor 2, TRAIL-R2, CD262, TNFRSF10B, DR5, KILLER, TRAILR2, TRICK2, ZTNFR9, TRICKB, TRICK2A, TRICK2B, KILLER/DR5.

Description:

Tumor necrosis factor-related apoptosis-inducing ligand Receptor 2 (TRAIL-R2) is a cell-surface receptor involved in tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced cell-death signaling.¹ The death ligand TRAIL bears high potential as a new anticancer agent, as binding to the death receptors TRAIL-R1 or TRAIL-R2 triggers apoptosis in most cancer cells.² TRAIL-R2 has been shown to be associated with a decrease in the survival rates of breast cancer patients.

Amino Acid Sequence:

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00001 ESALITQQDL APQRAAPQQ KRSSPSEGLC PPGHHISEDG
00041 RDCISKYGGQ DYSTHWNDLL FCLRCTRCDS GEVELSPCTT
00081 TRNTVCQCEE GTFREEDSPE MCRKCRTGCP RGMVKVGDCT
00121 PWSDIECVHK ES
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Source: *E. coli***Species:** Human

Biological Activity: Fully biologically active when compared to standard. rHusTRAIL-R2 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 (10 ng/mL) but in the presence of rHusTRAIL-R2, TRAIL-induced TNF is suppressed.

Molecular Weight: Approximately 14.8 kDa, a single non-glycosylated polypeptide chain containing 132 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg of rHusTRAIL-R2 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.