

Rev03  
Update: Dec,14,2021

**DATASHEET**

# sTRAIL R-2/TNFRSF10B, Human

Cat. No.: Z02934

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>TNFRSF10B (Glu52-Ser183) Accession # O14763</b>
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by LAL method
<b>Biological Activity</b>	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.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	14.8 kDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** 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.<sup>1</sup> 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.<sup>2</sup> TRAIL-R2 has been shown to be associated with a decrease in the survival rates of breast cancer patients.

**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

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