

# Recombinant Human TNFRSF10B

Cat No:HR2R2018

For research use only

## Overview

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| Quantity           | 50 ?g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Gene Symbol        | TNFRSF10B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene ID            | 8795                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Accession          | O14763                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Alternative Name   | Tumor necrosis factor receptor superfamily member 10B, Death receptor 5, TRAIL receptor 2, TRAIL-R2, CD262, TNF-related apoptosis-inducing ligand receptor 2                                                                                                                                                                                                                                                                                                                                         |
| Species            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Source             | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Description        | TNFRSF10B is a member of the TNFR superfamily and is a cell surface receptor that is involved in apoptosis. It contains an intracellular death domain and can be activated by binding to either membrane-anchored or soluble TRAIL/Apo2L. Diseases associated with TNFRSF10B include squamous cell carcinoma, head and neck and oral cavity cancer. Among its related pathways are Akt Signaling and Akt Signaling. It is closely related to TRAIL R1/DR4, sharing 55% amino acid sequence identity. |
| Functions          | The ED(50) was determined by the dose-dependent proliferation of human umbilical vein endothelial cells and was found to be <math>0.2\text{ng/mL}</math>.                                                                                                                                                                                                                                                                                                                                            |
| Formulation        | Lyophilized from a solution in Tris and NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Solubility         | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.                                                                                                                                                                                                                                                                                                                             |
| Appearance         | Lyophilized Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Molecular Weight   | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity             | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration      | <math>1.0\text{ EU/?g}</math> of recombinant protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Shipping Condition | Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Storage Condition  | The lyophilized protein is stable for at least one year from date of receipt at $-70^{\circ}\text{C}$ . Upon reconstitution, this cytokine can be stored in working aliquots at $2^{\circ} - 8^{\circ}\text{C}$ for one month, or at $-20^{\circ}\text{C}$ for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.                                                                                                                            |