

Bioactive

TNFSF10 (Human) Recombinant Protein

Catalog # P9292

Size 50 ug

Specification

Product Description	Human TNFSF10 partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHE KGFYYYSQTYFRFQEEIKENTKNDKQMVQYYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIQGG IFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG
Host	Escherichia coli
Theoretical MW (kDa)	21
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	chromatographic
Purity	> 95% as determined by (a) RP-HPLC.(b) SDS-PAGE.
Activity	ED ₅₀ < 2 ng/mL, measured by the cytolysis of Murine L929 cells in the presence of Actinomycin D, c orresponding to a specific activity of 5 x 10 ⁶ IU/mg.
Storage Buffer	Lyophilized from a solution containing 20 mM Tris-HCl, pH 8.0, 10% glycerol, 150mM NaCl. Reconsti tute the lyophilized powder in ddH ₂ O to 100 ug/mL.
Storage Instruction	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- Functional Study

Gene Info — TNFSF10

Entrez GeneID [8743](#)

Protein Accession# [P50591](#)

Gene Name TNFSF10

Gene Alias APO2L, Apo-2L, CD253, TL2, TRAIL

Gene Description tumor necrosis factor (ligand) superfamily, member 10

Omim ID [603598](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAIL R1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAP K8/JNK, caspase 8, and caspase 3. [provided by RefSeq]

Other Designations

Apo-2 ligand|TNF-related apoptosis inducing ligand TRAIL|tumor necrosis factor (ligand) family, member 10|tumor necrosis factor apoptosis-inducing ligand splice variant delta

Pathway

- [Apoptosis](#)
- [Cytokine-cytokine receptor interaction](#)
- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)

- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Lupus Erythematosus](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Ovarian Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)