

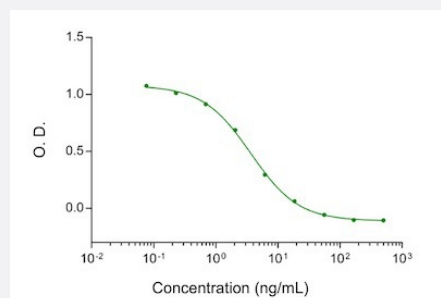
Bioactive

TNFSF10 (Human) Recombinant Protein

Catalog # P7372

Size 10 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description

Human TNFSF10 (P50591, 114 a.a. - 281 a.a) partial recombinant protein expressed in *Escherichia coli*.

Sequence

MVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFSLNLHLRNGELVIH
EKGFFYYYSQTYFRFQEEIKENTKNDKQMVQYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIQG
GIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

Host

Escherichia coli

Theoretical MW (kDa)

19.6

Form

Lyophilized

Preparation Method

Escherichia coli expression system

Purity

> 95% as analyzed by SDS-PAGE.
> 95% as analyzed by HPLC.

Endotoxin Level

< 0.2 EU/ug of protein by gel clotting method

Activity

ED₅₀ < 40.0 ng/mL, measured by the cell growth inhibitory assay using RPMI-8226 cells, correspond ing to a specific activity of > 2.5 × 10⁴ units/mg.

Recommend Usage

Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer

Lyophilized from PBS. Reconstitute the lyophilized powder in ddH₂O up to 100 ug/mL.

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

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 receptor s 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](#)