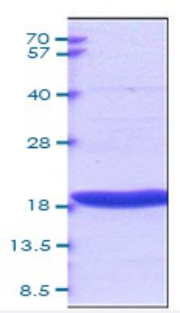
Bioactive

TNFSF10 (Human) Recombinant Protein

Catalog # P6951 Size 100 ug

Applications



Result of bioactivity analysis

Result of bioactivity analysis

TNFSF10 stimulates cell cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 range ≤ 1 ng/mL.

Specification

Product Description	Human TNFSF10 (NP_003801, 114 a.a. - 281 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Host	Human
Theoretical MW (kDa)	19.6
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	> 1 EU per 1ug of protein (determined by LAL method)

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Activity	Measured in a cytotoxicity assay using Jurkat human acute T cell leukemia cells. The ED_{50} range ≤ 1 ng/ml.
Quality Control Testing	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 20mM Tris-HCl, 300 mM NaCl, pH 7.5 (0.1 mM DTT, 10% glycerol)
Storage Instruction	Stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
Note	Result of bioactivity analysis Result of bioactivity analysis TNFSF10 stimulates cell cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 rang e ≤ 1 ng/mL.

Applications

- SDS-PAGE

Gene Info — TNFSF10

Entrez GeneID	8743
Protein Accession#	NP_003801
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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Summary	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) lig and 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 apo ptosis. 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Neoplasms
- Occupational Diseases
- Ovarian Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.