

Tumor Necrosis Factor Related Apoptosis Inducing Ligand (TRAIL) Active Protein | TRAIL active protein

Active Tumor Necrosis Factor Related Apoptosis Inducing Ligand (TRAIL)

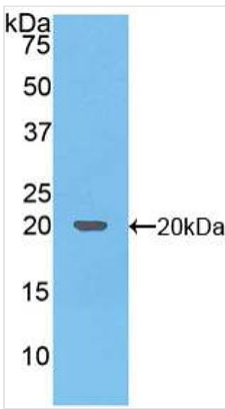
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA21106	E. coli	Homo sapiens (Human)	Cell Culture, Activity Assay, Invivo Assay

PRODUCT SYNONYMS

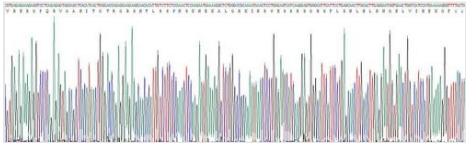
Tumor Necrosis Factor Related Apoptosis Inducing Ligand (TRAIL); Active Tumor Necrosis Factor Related Apoptosis Inducing Ligand (TRAIL); TRAIL active protein

PRODUCT SPECIFICATIONS

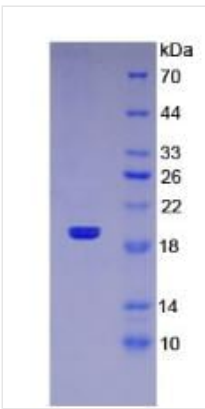
Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose
Concentration	Original Concentration: 450ug/mL (varies by lot)
Applicable Applications for TRAIL active protein	Cell Culture, Activity Assay, Invivo Assay
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression.
Residues	Val114~Gly281
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	8.6
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



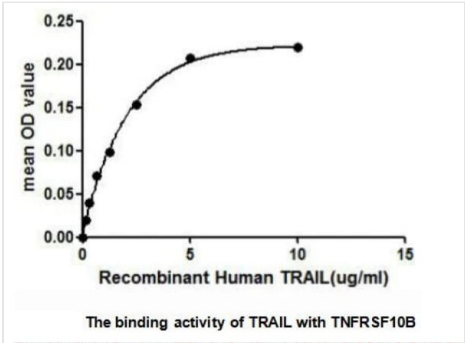
WB (Western Blot)
Sample: Recombinant TRAIL, Human;Antibody: Rabbit Anti-Human TRAIL Ab



Gene Sequencing (extract)



SDS-PAGE
Sample: Active recombinant TRAIL, Human



Activity Data
Protein TRAIL (TNF-Related Apoptosis-Inducing Ligand) is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. TRAIL induces apoptosis in transformed and tumor cells. This protein binds to several members of TNF receptor superfamily including TNFRSF10B/TRAILR2. Thus a binding ELISA assay was conducted to detect the interaction of TRAIL and TNFRSF10B. Briefly, recombinant human TRAIL were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then transferred to TNFRSF10B-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-TRAIL pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TRAIL and TNFRSF10B was shown in Figure 1, and this effect was in a dose dependent manner.

VRERGPQ RVAAHITGTR GRSNTLSSPN SKNEKALGRK
INSWESSRSG HSFLSNLHLR NGELVIHEKG FYYIYSQTYF RFQEEIKENT
KNDKQMVQYI YKYTSYPDPI LLMSARNSC WSKDAEYGLY SIYQGGIFEL
KENDRIFVSV TNEHLIDMDH EASFFGAFLV G

Sequence Information

ADDITIONAL INFORMATION

Product Categories/Family for TRAIL active protein	Apoptosis; Tumor immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507593
NCBI GeneID	8743
NCBI Accession #	NP_003801.1
NCBI GenBank Nucleotide #	NM_003810.3
UniProt Accession #	Q6IBA9; P50591

Molecular Weight	Predicted Molecular Mass: 19.6kDa Accurate Molecular Mass: 19kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 10 isoform 1
NCBI Official Synonym Full Names	TNF superfamily member 10
NCBI Official Symbol	TNFSF10
NCBI Official Synonym Symbols	TL2; APO2L; CD253; TRAIL; Apo-2L; TNLG6A
NCBI Protein Information	tumor necrosis factor ligand superfamily member 10
UniProt Protein Name	TNFSF10 protein
UniProt Gene Name	TNFSF10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/tumor-necrosis-factor-related-apoptosis-inducing-ligand-trail/21106>