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Datasheet for ABIN1344429

## TRAIL Protein (AA 99-291, Extracellular Domain, Soluble) (His tag)

### Overview

Quantity:	20 µg
Target:	TRAIL (TNFSF10)
Protein Characteristics:	Soluble, Extracellular Domain, AA 99-291
Origin:	Human, Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TRAIL protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

### Product Details

Brand:	SuperKillerTRAIL™
Specificity:	Binds to mouse and less potently to human TRAIL receptors.
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	The extracellular domain of mouse TRAIL (aa 99-291) is fused at the N-terminus to a His-tag and a linker peptide. The active multimeric conformation is stabilized by an inserted mutation allowing an additional CC-bridge.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test, Lonza).

## Target Details

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Target:	TRAIL (TNFSF10)
Alternative Name:	TRAIL ( <a href="#">TNFSF10 Products</a> )
Background:	TNF-related apoptosis-inducing ligand (TRAIL, Apo2L,CD253, TNFSF10) is a type II transmembrane protein of about 34 kDa. Like most members of the tumor necrosis factor (TNF) superfamily of cytokines TRAIL can be cleaved at the cell surface by metalloproteases to form a soluble molecule. Active TRAIL forms trimers and specifically binds to five distinct receptors: TRAIL-R1 (DR4, Apo2,CD261, TNFRSF10A), TRAIL-R2 (DR5, KILLER, TRICK2A,TRICK2B, CD262, TNFRSF10B), TRAIL-R3 (DcR1,LIT, TRID, CD263, TNFRSF10C), TRAIL-R4 (DcR2, TRUNDD, CD264, TNFRSF10D), and osteoprotegerin (OPG, OCIF, TNFRSF11B). Trimerized TRAIL triggers apoptosis upon ligation of cell surface TRAIL-R1 and/or TRAIL-R2 by inducing the formation of the so-called multiprotein death-inducing signaling complex (DISC).
Molecular Weight:	~24kDa
UniProt:	<a href="#">P50592</a>
Pathways:	<a href="#">Apoptosis</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Induces apoptosis at concentrations of >10ng/ml as tested on human tumor cells. This effect can be efficiently blocked by recombinant mouse TRAIL receptors. This protein does not require a cross-linker (enhancer) for its potent biological activity.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	Lot specific
Buffer:	In 20 mM HEPES, pH 7.4, 300 mM NaCl, 0.01 % Tween 20, 1 % sucrose, 1 mM DTT.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C

## Handling

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Storage Comment:                   Short Term Storage: -20°C  
  Long Term Storage: -80°C  
  Once thawed it is recommended to prepare appropriate aliquots and to store them at -80°C. ,  
  Stable for at least 1 year after receipt when stored at -80°C.

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Expiry Date:                        12 months