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Datasheet for ABIN1344419

## TRAIL Protein (AA 95-281, Extracellular Domain, Soluble) (His tag)

### Overview

Quantity:	50 µg
Target:	TRAIL (TNFSF10)
Protein Characteristics:	Soluble, Extracellular Domain, AA 95-281
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:	KillerTRAIL™
Specificity:	Binds to human and mouse TRAIL receptors and osteoprotegerin (OPG).
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	The extracellular domain of human TRAIL (aa 95-281) is fused at the N-terminus to a His-tag and a linker peptide.
Purity:	>98 % (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).
UniProt:	<a href="#">P50591</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:	Potent biologically active trimer. Induces apoptosis in a concentration range of 10-100ng/ml. Note: Does not require a cross-linking enhancer for its potent biological activity. ED50: 20ng/ml (BJAB cells). For cell lines that require extensive cross-linking of the TRAIL-Rs for killing (e.g. Jurkat) use SuperKillerTRAIL™ (Prod. No. AG-40T-0002).
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	Lot specific
Buffer:	In 20 mM HEPES, pH 7.4, 150 mM NaCl, 0.005 % 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
Storage Comment:	Short Term Storage: -20°C

## Handling

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Long Term Storage: -80°C

Stable for at least 1 year after receipt when stored at -80°C.

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Expiry Date: 12 months