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Datasheet for ABIN2018415
TRAIL Protein (AA 114-281)

Overview

Quantity:	50 µg
Target:	TRAIL (TNFSF10)
Protein Characteristics:	AA 114-281
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIAL
Characteristics:	ED50 < 40 ng/mL, measured by the cell growth inhibitory assay using RPMI-8226 cells, corresponding to a specific activity of > 2.5 x 10 ⁴ units/mg. AA 114-281, expressed with an N-terminal Met
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	TRAIL (TNFSF10)
Alternative Name:	TRAIL/Apo2L (TNFSF10 Products)

Target Details

Background: TRAIL/Apo2L, also known as Tumor Necrosis Factor Super-Family 10 (TNFSF10), is a pleiotropic cytokine that belongs to the TNF superfamily. The full length TRAIL expressed in vivo is a Type II transmembrane protein, although the soluble form also exists and functions. TRAIL has four major receptors: two death receptors DR4 and DR5, two decoy receptors DcR1 and DcR2. TRAIL binds to the death receptors, recruits the FAS-associated death domain, activates caspases 8 and 10, and eventually leads to apoptosis. Because of its antitumor potential, TRAIL is actively studied as a therapeutic agent. On the other hand, abnormal expression of TRAIL in small arteries can induce the proliferation of smooth muscle cells, resulting in increasing vascular remodeling and pulmonary arterial hypertension. Recombinant human TRAIL/Apo2L (rhTRAIL) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 169 amino acids. A fully biologically active molecule, rhTRAIL has a molecular mass of 19.6 kDa analyzed by reducing SDS-PAGE.

Synonyms: TNF-related apoptosis-inducing Ligand, TNFSF10, Apo2 Ligand, TL2

Molecular Weight: 19.6 kDa, observed by reducing SDS-PAGE.

UniProt: [P50591](#)

Pathways: [Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human TRAIL/Apo2L (rhTRAIL) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhTRAIL remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months