SANTA CRUZ BIOTECHNOLOGY, INC.

TRAIL (25-281): sc-4271 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Proteins belonging to the tumor necrosis factor (TNF) superfamily are potent mediators of inflammation and of the immune system. Members of the TNF superfamily include TNFβ, lymphotoxin β (LTβ), CD40L, CD30L, CD27L, Ox40L, 4-1BBL and FAS-L (Apo-1). Most TNF family members are type II transmembrane proteins that are proteolytically processed at their carboxy-terminal extracellular domain to form a soluble homotrimeric molecule. The extracellular domain of an additional TNF family member, designated TNF-related apoptosis-inducing ligand (TRAIL) or Apo-2L, exhibits 14-28% homology with other members of the TNF family. Like soluble FAS-L, soluble TRAIL will induce apoptosis. The morphological and cellular changes caused by the introduction of soluble TRAIL to Jurkat cells are indistinguishable from those caused by the introduction of soluble FAS-L. Unlike FAS-L, whose expression is more or less restricted to activated T cells, significant levels of TRAIL are observed in many tissues and it is constitutively expressed by some cell lines.

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SOURCE

TRAIL (25-281) is produced in *E. coli* as 55 kDa tagged fusion protein corresponding to amino acids 25-281 of TRAIL of human origin.

PRODUCT

TRAIL (25-281) is purified by bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

TRAIL (25-281) is suitable as a Western blotting control for sc-1889, sc-6079, sc-7877 and sc-8440.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.