

sTRAIL/Apo2L Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10330010	(10 µg)
Species: Human	RBG10330050	(50 µg)
Other names: TNF-related apoptosis-inducing Ligand, TNFSF10, Apo2 Ligand, TL2	RBG10330100	(100 µg)

Description

TRAIL/Apo2L is a cytotoxic protein, which activates rapid apoptosis in tumor cells, but not in normal cells. TRAIL-induced apoptosis is achieved through binding to two death-signaling receptors, DR4 and DR5. These receptors belong to the TNFR superfamily of transmembrane proteins, and contain a cytoplasmic “death domain”, which activates the cell's apoptotic machinery. The full length human TRAIL/Apo2L is a 281 amino acid protein, consisting of a 17 amino acid cytoplasmic domain, a 21 amino acid transmembrane domain, and a 243 amino acid extracellular domain. Recombinant Human soluble TRAIL/Apo2L is a 168 amino acid polypeptide (19.6 kDa), consisting of the TNF-homologous portion of the extracellular domain of the full length TRAIL/Apo2L protein.

Research topic

Apoptosis

Amino Acid Sequence

MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ
EEIKENTKND KQMVQYIYKY TSYDPILLM KSARNCSWSK DAEGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS
FFGAFLVG

Source

E. coli

Purity

98%

Biological Activity

Assay#1: Determined by its ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells. The expected ED₅₀ for this effect is 1.0-3.0 ng/ml.

Assay#2: Measured by its ability to induce apoptosis in LN-18 cells (human glioblastoma cells). The expected ED₅₀ for this effect is 0.8 - 2.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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