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# 32-1819: TRAIL Recombinant Protein

**Alternative Name :** Tumor necrosis factor ligand superfamily member 10,TNF-related apoptosis-inducing ligand,Protein TRAIL,Apo-2 ligand,Apo-2L,CD253 antigen,TL2,APO2L,TNFSF10.

## Description

Source : Escherichia Coli. TRAIL/APO 2 Ligand Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 168 amino acids (Met+Arg115-Gly281) and having a molecular mass of ~21kDa. The sTRAIL is purified by proprietary chromatographic techniques. TNF-related apoptosis-inducing ligand (TRAIL) is a ligand molecule which induces apoptosis. It is a type II transmembrane protein with homology to other members of the tumor necrosis factor family.In humans, the gene that encodes for TRAIL is located at chromosome 3q26. TRAIL binds to the death receptors, DR4 and DR5. The process of apoptosis is caspase-8-dependent. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues.

## Product Info

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| **Amount :** | 50 µg |
| **Purification :** | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | Lyophilized from a filtered (0.2µm) solution containing 20mM Tris-HCl pH 8.0 and 150mM NaCl. |
| **Storage condition :** | Lyophilized APO 2 Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TRAIL should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |
| **Amino Acid :** | MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG. |

## Application Note

It is recommended to reconstitute the lyophilized TRAIL in sterile 18MÃ‚Â©-cm H2O not less than 100Ã‚Âµg/ml, which can then be further diluted to other aqueous solutions. The activity is determined by the cytolysis of Murine L929 cells in the presence of Actinomycin D, ED50 for this effect is less than 2ng/ml, corresponding to a specific activity of 5,000,000IU/mg.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***