

## TRAIL Human (114-281 a.a.)

**Description:** Soluble TNF-related apoptosis-inducing ligand Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 169 amino acids (114-281) and having a molecular mass of 19.6 kDa. The sTRAIL is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-553

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless liquid.

**Amino Acid Sequence:** MVRERGPQRV AAHITGTRGR SNTLSSPNSK NEKALGRKIN  
SWESSRSGHS FLSNLHLRNGELVIHEKGFY YYSQTYFRF QEEIKENTKN DKQMVQYIYK  
YTSYPDPILL MKSARNSCWSKDAEYGLYSI YQGGIFELKE NDRIFVSVTN EHLIDMDHEA  
SFFGAFLVG.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

TRAIL in 20mM Tris-HCl pH-7.5, 300mM NaCl, 0.1mM DTT & 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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.

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