



11 Park Drive, Suite 12
Boston, MA 02215

Human TRAIL / APO2 Ligand

ORDERING INFORMATION

Catalog No: rAP-0167;

Size: 10 µg; 50 µg

Storage: <- 20° C

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.

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.

Description:

Soluble TNF-related apoptosis-inducing ligand Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 168 amino acids and having a molecular mass of 19.6 kDa. The sTRAIL is purified by proprietary chromatographic techniques.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a concentrated solution (1mg/ml) contains 150mM NaCl, and 50mM sodium phosphate, pH 7.4.

Solubility:

It is recommended to reconstitute the lyophilized TRAIL in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

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.

Purity:

Greater than 97.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com



11 Park Drive, Suite 12
Boston, MA 02215

Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Arg-Glu-Arg-Gly-Pro.

Biological Activity:

The activity is determined by the ability to induce apoptotic cell death in TRAIL-sensitive U343MG cells, ED₅₀ for this effect is 1-3 ng/ml.

Usage:

Angio-Proteomie'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.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com