
Product Data Sheet

Product Name: TRAIL Human

Cat. No.: GP21027

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG.		
Solubility	It is recommended to reconstitute the lyophilized TRAIL in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a filtered (0.2μm) solution containing 20mM Tris-HCl pH 8.0 and 150mM NaCl.		

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.

Biological Activity

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

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activity of 5,000,000IU/mg.

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.

Background

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 $\sim 21\text{kDa}$. The sTRAIL is purified by proprietary chromatographic techniques.

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