9051 Mira Mesa Blvd, #910094
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TRAIL Human

TRAIL / APO2 Ligand Human Recombinant
CYK0610

Product Overview

Name	TRAIL Human
Description	
TRAIL / APO2 Ligand Human Recombinant	
Accession (Primary)	P50591
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a filtered (0.2 μm) solution containing 20mM Tris-HCl pH 8.0 and 150mM NaCl.	
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 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYPDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN	

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DRIFVSVTNE HLIDMDHEAS FFGAFLVG.

Biological Activity

The activity is determined by the cytolysis of Murine L929 cells in the presence of Actinomycin D, ED 50 for this effect is less than 2ng/ml, corresponding to a specific activity of 5,000,000IU/mg.

Solubility

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

Precautions

TRAIL Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P50591)