



Recombinant Human TRAIL

Catalog Number: 100-115
Accession Number: P50591

Specifications and Uses:

Alternate Names: Apo2L, TL2, Apo2 Ligand, TNFSF10, CD253

Description:

TNF-Related Apoptosis-Inducing Ligand (TRAIL) is produced by a wide variety of cell types and is shown to be a cytotoxic protein that induces apoptosis in tumor cells through activation of the death receptors, DR4 and DR5. Human TRAIL is active on mouse cells. Recombinant human TRAIL is a non-glycosylated protein, containing the 168 amino acid extracellular portion of TRAIL that is homologous to TNF. It has a molecular weight of 19.5 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human TRAIL is lyophilized from 10 mM Na₂PO₄, pH 7.5 and 50 mM NaCl.

Although stable at room temperature for 3 weeks, lyophilized human TRAIL should be stored in a desiccated state below -18°C. Upon reconstitution human TRAIL should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 90%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the ability to induce apoptotic cell death in TRAIL-sensitive RPMI-8226 cells and is typically 10-15 ng/mL.

AA Sequence:

MRERGPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFYY
IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYDPILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN
DRIFVSVTNE HLIDMDHEAS FFGAFLVG

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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