

GFH115 Recombinant Human TRAIL

Description

Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) is a member of the Tumor Necrosis Factor (TNF) family of cytokines. TRAIL is widely produced by a variety of cell types including tumor cells, smooth muscle of the lung and spleen, cerebellar glial cells, and thyroid follicular cells. TRAIL is a cytotoxic protein that induces apoptosis in tumor cells through the activation of the death receptors DR4 and DR5. TRAIL also binds the neutralizing decoy receptors, DcR1 and DcR2. Human TRAIL is active on mouse cells.

Length	168 aa
Molecular Weight	19.5 kDa
Source	E. coli
Accession Number	P50591
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

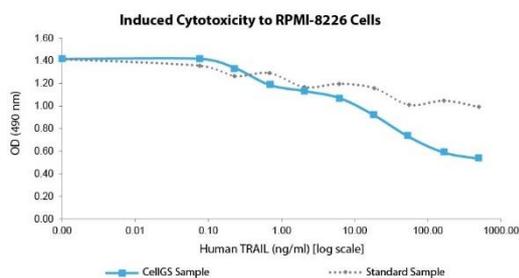
Specifications

Alternative Names	Apo2L, TL2, Apo2 Ligand, TNFSF10, CD253
Biological Activity	Human TRAIL is fully biologically active when compared to standard. The activity is determined by the ability to induce cytotoxicity to RPMI-8226 cells.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
AA Sequence	MREGRPQRVA AHITGTRGRS NTLSSPNSKN EKALGRKINS WESSRSGHSF LSNLHLRNGE LVIHEKGFY IYSQTYFRFQ EEIKENTKND KQMVQYIYKY TSYDPDILLM KSARNSCWSK DAEYGLYSIY QGGIFELKEN DRIFVSVTNE HLIDMDHEAS FFGAFLVG

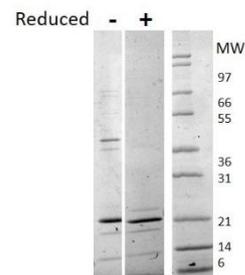
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced cytotoxicity of RPMI-8226 cells assay for Human TRAIL. Cell proliferation was measured to calculate the ED50.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human TRAIL has a predicted Mw of 19.5 kDa.