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Human recombinant TRAIL (TNF-related apoptosis-inducing ligand) protein, AF

Catalog Number: PROTP50591-6

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Overview

Product Name	Human recombinant TRAIL (TNF-related apoptosis-inducing ligand) protein, AF
Description	Tumor necrosis factor?associated apoptosis?inducing ligand (TRAIL) is a type II membrane protein of the tumor necrosis factor (TNF) family members, moreover, expressed in many adult tissues including the thymus, prostate, colon, ovary and lung. TRAIL is a 19kDa protein containing 281 residues. TRAIL to induce apoptosis in human breast carcinoma cells (MCF7) and human epitheloid carcinoma (HeLa) cell lines, by activate two death receptors of DR4 and DR5 or two decoy receptors DcR1 and DcR2.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 20.33 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED_{50} for this effect is 10.4-15.4 ng/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYT SYPDPILLMKSARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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