Recombinant TR10C protein (His tag)

Catalog Number	544055
Synonyms	Antagonist decoy receptor for TRAIL/Apo-2L; Decoy TRAIL receptor without death domain; Decoy receptor 1; DcR1; Lymphocyte inhibitor of TRAIL; TNF-related apoptosis-inducing ligand receptor 3; TRAIL receptor 3; TRAIL-R3; TRAIL receptor without an intracellular domain; CD antigen CD263
Species	Human
Expression System	E. coli
Accession	O14798
Molecular Weight	Predictes a molecular mass of 13.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	51-153
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 51-153 aa (O14798) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This product is a recombinant protein fragment of Human Tumor Necrosis Factor Receptor Superfamily Member 10C (TNFRSF10C), spanning residues 51-153. It represents a stable and soluble unit of the decoy receptor TRAIL-R3, designed for structural and biochemical studies to investigate its role in modulating TRAIL-mediated apoptosis. Tumor Necrosis Factor Receptor Superfamily Member 10C (TNFRSF10C), also known as TRAIL-R3 or DcR1, functions as a receptor for the cytotoxic ligand TRAIL. Unlike other TRAIL receptors, it lacks a cytoplasmic death domain and is incapable of inducing apoptosis. Instead, it acts as a decoy receptor by competing with pro-apoptotic TRAIL receptors (TRAIL-R1 and R2) for TRAIL binding, thereby protecting cells from TRAIL-mediated apoptosis. The protein is localized to the cell membrane via a GPI-anchor, positioning it to effectively intercept TRAIL signaling at the cell surface.