TNFRSF10C Protein, Human (HEK293, His)

Cat. No.:	HY-P70815
Synonyms:	Tumor Necrosis Factor Receptor Superfamily Member 10C; 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
Species:	Human
Source:	HEK293
Accession:	O14798 (A26-A221)
Gene ID:	8794
Molecular Weight:	50-60 kDa

PROPERTIES

AA Sequence	A T T A R Q E E V P Q Q T V A P Q Q Q R H S F K G E E C P A G S H R S E H T G A C N P C T E G V D Y T N A S N N E P S C F P C T V C K S D Q K H K S S C T M T R D T V C Q C K E G T F R N E N S P E M C R K C S R C P S G E V Q V S N C T S W D D I Q C V E E F G A N A T V E T P A A E E T M N T S P G T P A P A A E E T M N T S P G T P A P A A E E T M T T S P G T P A P A A E E T M T T S P G T P A
Biological Activity	Measured by its ability to inhibit TRAIL-mediated cytotoxicity using L929 mouse fibroblast cells. The ED_{50} of this effect is less than 200 ng/mL in the presence of 12 ng/mL of rhTRAIL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	The TNFRSF10C Protein serves as a receptor for the cytotoxic ligand TRAIL; however, it lacks a cytoplasmic death domain, rendering it incapable of inducing apoptosis. Instead, TNFRSF10C may play a protective role in cells by competing with TRAIL-R1 and R2 for binding to the ligand, potentially acting as a decoy receptor and thereby mitigating TRAIL-mediated

apoptosis. This unique feature highlights the regulatory complexity of TNFRSF10C in modulating cellular responses to TRAIL signaling and suggests its involvement in fine-tuning the balance between survival and apoptotic pathways.

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