TRAIL R2/TNFRSF10B Protein, Mouse (HEK 293, hFc)

Cat. No.:	HY-P71982
Synonyms:	Tnfrsf10b; Dr5; Killer; Tumor necrosis factor receptor superfamily member 10B; Death receptor 5; MK; CD antigen CD262
Species:	Mouse
Source:	HEK293
Accession:	Q9QZM4 (N53-S177)
Gene ID:	21933
Molecular Weight:	Approximately 50 kDa

PROPERTIES

AA Sequence	N P A H N R P A G L Q R P E E S P S R G P C L A G Q Y L S E G N C K P C R E G I D Y T S H S N H S L D S C I L C T V C K E D K V V E T R C N I T T N T V C R C K P G T F E D K D S P E I C Q S C S N C T D G E E E L T S C T P R E N R K C V S K T A W A S
Biological Activity	The ED_{50} as determined by its ability to inhibit TRAIL-mediated cytotoxicity using L929 mouse fibroblast cells treated with TRAIL is less than 1 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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.
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	TRAIL R2/TNFRSF10B Protein serves as a receptor for the cytotoxic ligand TNFSF10/TRAIL. Upon ligand binding, the adapter molecule FADD recruits caspase-8 to the activated receptor, leading to the formation of the death-inducing signaling complex (DISC). The DISC performs caspase-8 proteolytic activation, initiating a cascade of caspases that mediate apoptosis. Additionally, TRAIL R2/TNFRSF10B promotes the activation of NF-kappa-B and is essential for ER stress-induced apoptosis. In its monomeric form, it can interact with TRADD and RIPK1, and three TNFRSF10B molecules interact with the TNFSF10 homotrimer. In the absence of stimulation, TRAIL R2/TNFRSF10B interacts with BIRC2, DDX3X, and GSK3B, with

	enhanced interactions observed upon receptor stimulation, accompanied by DDX3X and BIRC2 cleavage (By similarity).

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