

## TRAIL R2/TNFRSF10B Protein, Mouse (HEK293, His-Fc)

<b>Cat. No.:</b>	HY-P72977
<b>Synonyms:</b>	Tumor necrosis factor receptor superfamily member 10B; Death receptor 5; CD262; Tnfrsf10b; Dr5; Killer
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9QZM4 (N53-S177)
<b>Gene ID:</b>	21933
<b>Molecular Weight:</b>	50-55 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M E P P G P S T P T   A S A A A R A D H Y   T P G L R P L P K R   R L L Y S F A L L L A V L Q A V F V P V   T A 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           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>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).</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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