

TRAIL R2/TNFRSF10B Protein, Mouse (128a.a, HEK293, His)

Cat. No.:	HY-P78363
Synonyms:	CD262; DR5; DR5TRICK2B; Fas-like protein; KILLER/DR5; TNFRSF10B; TRAIL R2; TRAIL receptor 2; TRAILR2; TRICK2; TRICK2A; TRICKB; ZTNFR9; KILLER
Species:	Mouse
Source:	HEK293
Accession:	Q9QZM4 (N53-K180)
Gene ID:	21933
Molecular Weight:	30-40 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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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Caution: Product has not been fully validated for medical applications. For research use only.

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