

Product Data Sheet

TNF RII/TNFRSF1B Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70516
Synonyms:	Tumor necrosis factor receptor superfamily member 1b; Tnfrsf1b; TNF-RII; TNFRII; TNF RII
Species:	Mouse
Source:	HEK293
Accession:	P25119/NP_035740.2 (V23-G258)
Gene ID:	21938
Molecular Weight:	Approximately 42 kDa

Inhibitors
•
Screening Libraries •
•
Proteins

VPAQVVLTPY KPEPGYECQI SQEYYDRKAQ MCCAKCPPGQ YVKHFCNKTS DTVCADCEAS MYTQVWNQFR TCLSCSSSCT TDQVEIRACT KQQNRVCACE AGRYCALKTH SGSCRQCMRL SKCGPGFGVA SSRAPNGNVL CKACAPGTFS DTTSSTDVCR PHRICSILAI PGNASTDAVC APESPTLSAI PRTLYVSQPE PTRSQPLDQE PGPSQTPSIL TSLGSTPIIE QSTKGG
Measured by its ability to inhibit TNFα-mediated cytotoxicity in L-929 mouse fibroblast cells in the presence of the metabol inhibitor actinomycin D.The ED ₅₀ for this effect is typically 0.4-3 μg/mL in the presence of 0.1 ng/mL of recombinant mouse TNFα.
Lyophilized powder
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4.
<1 EU/µg, determined by LAL method.
It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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.
Room temperature in continental US; may vary elsewhere.

DESCRIPTION	
Background	TNFRII (TNFRSF1B) protein is a single-pass type I membrane protein belonging to the tumor necrosis factor (TNF) family. TNFRII is the major signaling receptor for TNF-α. TNFRII protein is highly regulated and typically found in immune system

cells^[1].

The amino acid sequence of mouse TNFRII protein has low homology between human and rhesus macaque TNFRII protein (less than 85%).

TNFRII induces apoptosis. TNFRII does not directly engage the apoptotic program, but relies on the induction of endogenous, membrane-bound TNF, which subsequently activates TNFRI. TNFRII stimulates the action of the endogenously produced membrane-bound TNF on TNFRI is drastically enhanced. TNFRII competes with TNFRI for the recruitment of newly synthesized TRAF2-bound anti-apoptotic factors, thereby promoting the formation of a caspase-8-activating TNFRI complex. TNFRII competes with TNFRI for binding of TRAF2 and the TRAF2-associated anti-apoptotic cIAP1 and cIAP2 proteins. cIAP1-initiated degradation of TRAF2, which in turn enhances receptor competition for the remaining TRAF2, cIAP1 and cIAP2 molecules. cIAP1 would have an anti-apoptotic function upon recruitment into the TNFRI signalling complex, but would switch to a net proapoptotic function upon recruitment into the TNFRI signalling complex.^{[1][2][3]}.

REFERENCES

[1]. Wajant H, et, al. Tumor necrosis factorsignaling. Cell Death Differ. 2003 Jan;10(1):45-65.

[2]. Fotin-Mleczek M, et, al. Apoptoticcrosstalk of TNF receptors: TNF-R2-induces depletion of TRAF2 and IAP proteins and accelerates TNF-R1-dependent activation of caspase-8. J Cell Sci. 2002 Jul1;115(Pt 13):2757-70.

[3]. Masli S, et, al. Anti-inflammatory effects of tumour necrosis factor (TNF)-alpha are mediated via TNF-R2 (p75) intolerogenic transforming growth factor-beta-treated antigen-presenting cells. Immunology. 2009 May;127(1):62-72.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA