

# Recombinant Murine soluble Tumor Necrosis Factor Receptor Type II/TNFRSF1B (rMusTNF RII/TNFRSF1B)

## ChemWhat Technical Data Sheet (TDS)

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<b>Catalog Number:</b>	123-29R
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 25.3 kDa, a single non-glycosylated polypeptide chain containing 236 amino acids.
<b>Quantity:</b>	5µg/20µg/1000µg
<b>AA Sequence:</b>	VPAQVVLTPY KPEPGYECQI SQEYYDRKAQ MCCAACPPGQ YVKHFCNKTS DTVCADCEAS MYTQVWNQFR TCLSCSSSCT TDQVEIRACT KQQNRVCACE AGRYCALKTH SGSCRQCMRL SKCGPGFGVA SSRAPNGNVL CKACAPGTFS DTTSSSTDVCR PHRICSLAI PGNASTDAVC APESPTLSAI PRTLYVSQPE PTRSQPLDQE PGPSQTPSIL TSLGSTPIIE QSTKGG
<b>Purity:</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by its ability to inhibit the TNF- $\alpha$ mediated cytotoxicity in the L-929 cells is less than 2 µg/ml, corresponding to a specific activity of > 500 IU/mg in the presence of 0.1 ng/mL of rMuTNF- $\alpha$ .
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rMusTNF RII/TNFRSF1B as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20$ °C . Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### ***Murine soluble Tumor Necrosis Factor Receptor Type II/TNFRSF1B***

TNFRSF1B also known as tumor necrosis factor receptor 2 (TNFR2) and CD120b, is encoded by the TNFRSF1B gene in humans. It is a member of the tumor necrosis factor receptor superfamily, which also contains TNFRSF1A. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. TNFRSF1B has been shown to interact with TRAF2 and TTRAP. Recombinant murine TNFRSF1B is a 25.3 kDa protein with 236 amino acid residues.