

Recombinant Human soluble Tumor Necrosis Factor Receptor Type I/TNFRSF1A (rHusTNF RI/TNFRSF1A)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	103-28R
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 21.2 kDa, a single non-glycosylated polypeptide chain containing 190 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	IYPSGVIGLV PHLGDREKRD SVC PQGKYIH PQNNSICCTK CHKGTYLYND CPGPGQDTDC RECESGSFTA SENHLRHCLS CSKCRKEMGQ VEISSCTVDR DTVCGCRKNQ YRHYWSENLF QCFNCSLCLN GTVHLSQCEK QNTVCTCHAG FFLRENECVS CSNCKKSLEC TKLCLPQIEN VKGTEDSGTT
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by its ability to inhibit the TNF-alpha mediated cytotoxicity in the L-929 cells is less than 0.05 µg/ml, corresponding to a specific activity of > 2 × 10 ⁴ IU/mg in the presence of 0.25 ng/mL of rHuTNF-alpha.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/µg of rHusTNF RI/TNFRSF1A as determined by LAL method.
Reconstitution:	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 ≤ -20 °C . Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human soluble Tumor Necrosis Factor Receptor Type I/TNFRSF1A

TNF RI, also named as TNFR-I, TNF R1, TNFRSF1A, p55 and p60, belongs to the tumor necrosis factor receptor superfamily, and it is encoded by the TNFRSF1A gene in human. TNF RI is a universally expressed protein and is thought to form homotrimers after ligand binding. TNF RI is one of the major receptors for the TNF-α. This receptor can activate the transcription factor NF-κB, mediate apoptosis, and function as a regulator of inflammation. Mature human soluble TNF RI shares 68 % ~ 73 % amino acid sequence identity with murine, rat, bovine and porcine soluble TNF RI.