

**Recombinant Human TNF Ligand-related
Molecule 1/TNFSF15
(rHuTL-1A/TNFSF15)
ChemWhat Technical Data Sheet (TDS)**

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| Catalog Number: | 103-22 |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | Approximately 20.5 kDa, a single non-glycosylated polypeptide chain containing 180 amino acids. |
| Quantity: | 5µg/20µg/1000µg |
| AA Sequence: | LKGQEFAPSH QQVYAPLRAD GDKPRAHLTV VRQTPTQHFQK NQFPALHWEH ELGLAFTKNR MNYTNKFLLI PESGDYFIYS QVTRFGMTSE CSEIRQAGRP NKPDSITVVI TKVTDSEPEP TQLLMGTKSV CEVGSNWFQP IYLGAMFSLQ EGDKLMVNVS DISLVDYTKE DKTFFGAFL |
| 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 induce apoptosis using human TF-1 cells is less than 20 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁴ IU/mg. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 0.02% Tween-20. |
| Endotoxin: | Less than 0.1 EU/µg of rHuTL-1A/TNFSF15 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 TNF Ligand-related Molecule 1/TNFSF15

TL-1A is a type II transmembrane protein belonging to the TNF superfamily and has been designated TNF superfamily member 15 (TNFSF15). TL-1A is predominantly expressed in endothelial cells and its expression is inducible by TNF-α and IL-1α. TL-1A binds with high affinity to death receptor 3 (DR3), known as TNFRSF25. Depending on the cell context, ligation of DR3 by TL-1A can trigger one of two signaling pathways, activation of the transcription factor NF-κB, or activation of caspases and apoptosis. Recombinant human TL-1A is a 20.5 kDa polypeptide of 180 amino acid residues.