

Recombinant Murine TNF-related apoptosis-inducing Ligand/TNFSF10 (rMuTRAIL/TNFSF10)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	123-15
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 20.2 kDa, a single non-glycosylated polypeptide chain containing 175 amino acids.
Quantity:	10µg /50µg /1000µg
AA Sequence:	MPRGGRPQKV AAHITGITRR SNSALIPISK DGKTLGQKIE SWESSRKGHS FLNHVLFNRNG ELVIEQEGLY YIYSQTYFRF QEAEDASKMV SKDKVVRTKQL VQYIYKYTSY PDPIVLMKSA RNSCWSRDAE YGLYSIQGG LFELKKNDRIFVSVTNEHLM DLDQEASFFG AFLIN
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cytotoxicity assay using murine L929 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg in the presence of actinomycin D.
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 3 mM DTT.
Endotoxin:	Less than 0.1 EU/µg of rMuTRAIL/TNFSF10 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.

Murine TNF-related apoptosis-inducing Ligand/TNFSF10

TNF-related apoptosis-inducing ligand (TRAIL), also known as Apo-2 ligand and TNFSF10, is a type II transmembrane protein with a carboxy-terminal extracellular domain that exhibits homology to other TNF superfamily members. Among TNF superfamily members, TRAIL is the most homologous to Fas Ligand, sharing 28% amino acid sequence identity in their extracellular domains. Murine TRAIL shares 65 % amino acid sequence identity with human TRAIL.