

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	121-09
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	QRCSTTWGIR DTNYLIENLK DDPPSKCSCS GNVTSCLCLS VPTDDCTTPC YREGLLQLTN ATQKSRLLPV FHRVKRIVEV LKNITCPSFS CEKPCNQ TMA GNTLSFLKSL LGTFQKTEMQ RQKSRP
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine TS1 cells is less than 0.02 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁷ 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.
Endotoxin:	Less than 0.1 EU/µg of rMuIL-9 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 Interleukin-9

Murine interleukin-9 (IL-9) was originally identified as T cell-derived T cell growth factor III/P40 that could support the long term growth of certain murine T helper clones in the absence of antigen or antigen-presenting cells. Human IL-9 was independently cloned as a novel growth factor that is mitogenic for the human megakaryoblastic leukemic cell line, M07e. Murine IL-9 shares 56 % amino acid sequence identity with human IL-9. Although murine IL-9 is active on human cells, human IL-9 is not active on murine cells.