

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	121-10
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 160 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	SRGQYSREDN NCTHFPVGQS HMLLELR TAF SQVKTF FQTK DQLDNILLTD SLMQDFKGYL GCQALSEMIQ FYLVEVMPQA EKHGPEIKEH LNSLGEK LKT LRMRLRRCHR FLPCENKSKA VEQVKSDFNK LQDQGVYKAM NEFDIFINCI EAYMMIKMKS
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 MC/9-2 cells is less than 1 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg.
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 1 EU/µg of rMuIL-10 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 10 mM HCl 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-10

Interleukin-10 (IL-10) is encoded by the IL10 gene and expressed in monocytes and Type 2 T helper cells (Th2). The biological activities of IL-10 are mediated by the IL-10 receptor complex, which is composed of the ligand-binding IL-10 R α /R1 and the accessory IL-10 R β /R2 subunits. IL-10 is capable of inhibiting the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by T helper cells. IL-10 is classified as a class 2 cytokine which consist of IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26, several interferons and interferon-like molecules. Mature murine IL-10 shares 70 %-77 % amino acid sequence identity with human, bovine, porcine IL-10, but murine IL-10 does not act on human cells.