

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	121-19
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
Quantity:	2µg /10µg /1000µg
AA Sequence:	LRRCLISVDM RLIEKSFHEI KRAMQTKDTF KNVTILSLEN LRSIKPGDVC CMTNLLTFY RDRVFQDHQE RSLEVLRRIS SIANSFLCVQ KSLERCQVHR QCNCQSQEATN ATRIIHDNYN QLEVSSAALK SLGELNILLA WIDRNHLETP AA
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 human IL-20Rα and human IL-20Rβ co-transfected murine BaF3 pro-B cells is less than 0.8 ng/ml, corresponding to a specific activity of > 1.25 × 10 ⁶ 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 3 % Trehalose.
Endotoxin:	Less than 0.1 EU/µg of rMuIL-19 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-19

Interleukin-19 (IL-19) belongs to the IL-10 family that includes IL-10, IL-20, IL-22, IL-24, and IL-26. As a monomer made of seven amphipathic helices, IL-19 has a helical bundle and shares the same cell surface receptor (IL-20R) with IL-20 and IL-24. It may play some important roles in inflammatory responses because it up-regulates IL-6 and TNF-alpha and induces apoptosis.