

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	221-04
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 8.2 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	VTSAGPEESD GDLSCVCVKT ISSGIHLKHI TSLEVIKAGR HCAVPQLIAT LKNGRKICLD RQAPLYKKVI KKILES
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration of 10-100ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, 1.5 M NaCl, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rMuPF-4/CXCL4 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 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 Platelet Factor-4/CXCL4

CXCL4 (PF4) is a small cytokine belonging to the CXC chemokine family and it is also known as chemokine (C-X-C motif) ligand 4 (CXCL4). This chemokine is released from alpha-granules of activated platelets during platelet aggregation and neutralizes the anticoagulant effect of heparin because it binds more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. CXCL4 interacts with a splice variant of the chemokine receptor CXCR3. Recombinant mouse CXCL4 contains 76 amino acids which is a single non-glycosylated polypeptide chain. Specifically, Human and mouse CXCL4 share about a 60 % identity.