

Recombinant Murine Macrophage Inflammatory Protein-2/CXCL2 (rMuMIP-2/CXCL2)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	221-02
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.
Quantity:	5µg /20µg /1000µg
AA Sequence:	AVVASELRCQ CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGGQKVCLDPEAPLVQ KIIQKILNKG KAN
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 range of 1.0-10 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin:	Less than 1 EU/µg of rMuMIP-2/CXCL2 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 Macrophage Inflammatory Protein-2/CXCL2

Murine CXCL2, also named MIP-2, is belonging to the CXC chemokine family. It is encoded by the gene CXCL2. CXCL2 shares 90 % amino acid sequence with CXCL1/GRO α . It is member of the intercrine alpha (chemokine C-X-C) subfamily of chemokines. This chemokine is secreted from a murine macrophage cell line. The functional receptor for CXCL2 has been identified as CXCR2. CXCL2 is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. Similar to other GRO proteins, CXCL2 is potent neutrophil attractants and activators. In addition, it is also active toward basophils. The amino acid sequence of murine CXCL2 is 60 % identical to human CXCL2.