

**Recombinant Murine Macrophage Inflammatory  
Protein-3 $\alpha$ /CCL20  
(rMuMIP-3 $\alpha$ /CCL20)  
ChemWhat Technical Data Sheet (TDS)**

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<b>Catalog Number:</b>	224-20
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 8.0 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
<b>Quantity:</b>	5 $\mu$ g /20 $\mu$ g /1000 $\mu$ g
<b>AA Sequence:</b>	ASNYDCCLSY IQTPLPSRAI VGFTRQMADE ACDINAIIFH TTKRKSVCAD PKQNWVKRAV NLLSLRVKKM
<b>Purity:</b>	> 96 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human CCR6 transfected murine BaF3 cells is in a concentration range of 0.1-10 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 1 EU/ $\mu$ g of rMuMIP-3 $\alpha$ /CCL20 as determined by LAL method.
<b>Reconstitution:</b>	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 $\leq$ -20 $^{\circ}$ C . Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 <math>^{\circ}</math>C as supplied.</li><li>● 1 month, 2 to 8 <math>^{\circ}</math>C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 <math>^{\circ}</math>C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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***Murine Macrophage Inflammatory Protein-3 $\alpha$ /CCL20***

CCL20, also named LARC (Liver and Activation-regulated Chemokine), is encoded by CCL20 located on chromosome 1 in mouse. The expression can be induced by LPS and some inflammatory cytokines, and it is at a high level in lymph nodes, PBL, fatal liver, fatal lung, appendix and so on. CCL20 has functions of chemotactic towards lymphocytes and dendritic cells. Additionally, it promotes the adhesion of memory CD4<sup>+</sup> T cells and inhibits colony formation of bone marrow myeloid immature progenitors. CCL20 elicits its effects by binding with CCR6 receptor.