

**Recombinant Rat LPS-induced CXC  
chemokine/CXCL5  
(rRtLIX/CXCL5)**

**PrimeGene Technical Data Sheet**

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<b>Catalog Number:</b>	241-05
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 10.1 kDa, a single, non-glycosylated polypeptide chain containing 93 amino acids.
<b>Quantity:</b>	5µg/20µg/1000µg
<b>AA Sequence:</b>	APFSAMVATE LRCVCLTLAP RINPKMIANL EVIPAGPHCP KVEVIKLN QKDNVCLDPQ APLIKVIQK ILGSENKKT RNALALVRS STQ
<b>Purity:</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration of 10-100 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 1 EU/µg of rRtLIX/CXCL5 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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Storage:</b>	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. <b>Avoid repeated freeze/thaw cycles.</b>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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***Rat LPS-induced CXC chemokine/CXCL5***

CXCL5 is a small cytokine belonging to the CXC chemokine family. It is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. The expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon IFN-γ. Recombinant rat CXCL5 contains 93 amino acids which is a single, non-glycosylated polypeptide chain. Rat CXCL5 shares 57% amino acid sequence identity with human CXCL5.