

Technical Data Sheet

Flogen[®] Recombinant Rat LPS-induced CXC chemokine/CXCL5 (rRtLIX/CXCL5)

Catalog Number:	PGR0241-005
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 10.1 kDa, a single, non-glycosylated polypeptide chain containing 93 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	APFSAMVATE LRCVCLTLAP RINPKMIANL EVIPAGPHCP KVEVIAKLKN QKDNVCLDPQ APLIKKVIQK ILGSENKTK RNALALVRSR STQ
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 peripheral blood neutrophils is in a concentration of 10-100 ng/ml.
Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rRtLIX/CXCL5 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.
Storage:	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. Avoid repeated freeze/thaw cycles.
Usage:	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

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- α . 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.