

Recombinant Murine LPS-induced CXC Chemokine/CXCL5

#R00412

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

CXCL5 is a small cytokine belonging to the CXC chemokine family that is also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78) and the gene for CXCL5 is encoded by the CXCL5 gene. It May participate in the recruitment of inflammatory cells by injured or infected tissue. CXCL5 is cleaved into the following 2 chains: GCP-2 (1-78) and GCP-2 (9-78) which attract neutrophils and are involved in neutrophil activation. Recombinant Mouse CXCL5 (92 a.a.) contains 92 amino acids and shares 57 % amino acid sequence identity with human CXCL5.

AA Sequence

APSSVIAATELRVCVCLTVTPKINPKLIANLEVIPAGPQC
PTVEVIAKLKNQKEVCLDPEAPVIKKIIQKILGSDKKKA
KRNALAVERTASVQ

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.

Product Specification

Synonyms	Cytokine LIX, Small-inducible Cytokine B5
Accession	P50228
GeneID	20311
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 9.8 kDa, a single, non-glycosylated polypeptide chain containing 92 amino acids.
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.

Physical	Sterile Filtered White lyophilized
Appearance	(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 rMuLIX/CXCL5 as determined by LAL method.