

Recombinant Rat LPS-induced CXC Chemokine/CXCL5

#R00447

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). 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.

AA Sequence

APFSAMVATELRCVCLTLAPRINPKMIANLEVIPAGPH
CPKVEVIAKLKNQKDNVCLDPQAPLIKKVIQKILGSEN
KKTKRNALALVRSASTQ

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	P97885
GeneID	60665
Species	Rat
Source	Escherichia coli.
Molecular Weight	Approximately 10.1 kDa, a single, non-glycosylated polypeptide chain containing 93 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

2 × PBS, pH 7.4.

Endotoxin Less than 1 EU/µg of
rRtLIX/CXCL5 as determined by
LAL method.