

# Recombinant Epithelial Neutrophil-Activating Protein 78 (rm ENA-78 / LIX / CXCL5)

**Synonyms:** Epithelial-derived neutrophil-activating protein 78, Neutrophil-activating peptide ENA-78, small inducible cytokine B5, CXCL5,

**Introduction:** ENA-78 is a CXC chemokine that signals through the CXCR2 receptor. It is expressed in monocytes, platelets, endothelial cells, and mast cells. ENA-78 is a chemoattractant for neutrophils. The three naturally occurring variants of human ENA-78; ENA 5-78, ENA 9-78 and ENA 10-78, contain 74, 70, and 69 amino acid residues, respectively, and possess the same biological activity. ENA-78 contains the four conserved cysteine residues present in CXC chemokines, and also contains the 'ELR' motif common to CXC chemokine that bind to the CXCR1 and CXCR2 receptors

**Description:** Recombinant mouse Epithelial Neutrophil-Activating protein 78 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 93 amino acids and having a molecular mass of 9.8 kDa. The LIX is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2µm filtered solution in 20mM PB, pH 7.4, 150mM NaCl. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm LIX in sterile H<sub>2</sub>O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm LIX although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm LIX should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE

**Amino Acid Sequence:** APSSVIAATE LRCVCLTVTP KINPKLIANL EVIPAGPQCP TVEVIKLNK QKEVCLDPEA PVIKKIIQK ILGSDKKKAK RNALAVERTA SVQ.

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0 - 100.0 ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12344340
<i>medium</i>	20 µg	Cat.N°	12344344

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