

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

**Synonyms:** C-X-C motif chemokine 5, Small-inducible cytokine B5, Scyb5, GCP-2, Scyb6, AMCF-II.

**Introduction:** Chemokine (C-X-C motif) ligand 5 (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. Expression of CXCL5 has also been observed in eosinophils. This chemokine stimulates the chemotaxis of neutrophils possesses angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2. The gene for CXCL5 is encoded on four exons and is located on human chromosome 4 amongst several other CXC chemokine genes. CXCL5 has been implicated in connective tissue remodelling.

**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 9.8kDa. The CXCL5 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 concentrated (1.0mg/ml) solution in 20mM sodium phosphate buffer, 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 ENA-78 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 ENA-78 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm ENA-78 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 TVEVIAKLKN QKEVCLDPEA PVIKKIIIQK 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 use 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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