

# Recombinant Human Epithelial Derived Neutrophil Activating Protein 78, 5-78a.a./CXCL5 (rHuENA-78, 5-78a.a./CXCL5) PrimeGene Technical Data Sheet

<b>Catalog Number:</b>	201-05
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 8.1 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
<b>Quantity:</b>	5µg/20µg/1mg
<b>AA Sequence:</b>	AAVLRELRCV CLQTTQGVHP KMISNLQVFA IGPQCSKVEV VASLKNGKEI CLDPEAPFLK KVIQKILDGG NKEN
<b>Purity:</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	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 10.0-100.0 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuENA-78, 5-78a.a./CXCL5 as determined by LAL method.
<b>Reconstitution:</b>	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.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

## ***Human Epithelial Derived Neutrophil Activating Protein 78, 5-78a.a./CXCL5***

CXCL5 is a small cytokine also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78). The gene for human CXCL5 is encoded by four exons which belong to CXCL5 gene located on human chromosome 4. The protein is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. In vitro, ENA-78 (8-78) and ENA-78 (9-78) show a threefold higher chemotactic activity for neutrophil granulocytes. They are produced by proteolytic cleavage after secretion from peripheral blood monocytes. Recombinant human CXCL5 (5 - 78 a.a.) contains 74 amino acids and it is a single non-glycosylated polypeptide chain. Human CXCL5 shares 57 % amino acid sequence identity with mouse and rat CXCL5.