

## Recombinant Human Epithelial Neutrophil Activating Peptide-78, 1-78 a.a./CXCL5

### Information

<b>Gene ID</b>	
<b>Accession #</b>	
<b>Alternate Names</b>	
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 8.3 kDa, a single non-glycosylated polypeptide chain containing 78 amino acids.
<b>AA Sequence</b>	AGPAAVLRE LRCVCLQTTQ GVHPKMISNL QVFAIGPQCS KVEVVASLKN GKEICLDPEA PFLKKVIQKI LDGGNKEN
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	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
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 500 mM NaCl.
<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>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 5.0-10.0 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg
Recombinant Human Epithelial Neutrophil Activating Peptide-78, 1-78 a.a./CXCL5	5µg	100µg

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

## Quality Control

Purity	> 97 % by SDS-PAGE analyses.
Endotoxin	Less than 1 EU/μg of rHuENA-78, 1-78a.a./CXCL5 as determined by LAL method.

## Description

CXCL5 is a member of the CXC chemokine family and 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. 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 (1-78 a.a.) contains 78 amino acids which is a single non-glycosylated polypeptide chain. Human CXCL5 shares 57 % amino acid sequence identity with mouse and rat CXCL5.

## Reference

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