

## Active Recombinant Human CXCL5 Protein (74 aa)

Cat. No. CXCL5-131C Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CXCL5 Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	74
<b>Description</b>	Epithelial cell-derived neutrophil-activating peptide 78 (ENA-78) is a member of the CXC subfamily of chemokines that has the Glu-Leu-Arg (ELR) motif preceding the CXC motif. Similar to other ELR containing CXC chemokines, ENA-78 is a potent neutrophil chemoattractant and activator. Proteolysis of ENA-78 with cathepsin G and chymotrypsin have yielded N-terminally truncated variants with increased biological activities. ENA-70 and ENA-74 represent truncated recombinant ENA-78 variants missing 8 and 4 aa residues, respectively, from the N-terminus. Recombinant ENA-70 and ENA-74 have been shown to have increased potency in neutrophil chemotaxis and myeloperoxidase and elastase release assays.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	Fully biologically active when compared to standard. Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 5.0-10.0 ng/mL, corresponding to a Specific Activity of $1 \times 10^5$ IU/mg.
<b>Molecular Mass</b>	8.0 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.

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<b>AA Sequence</b>	AAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQCSKVEVVASLKNNGKEICLDPEAP FLKKVIQKILDGGNKEN
<b>Endotoxin</b>	Less than 1 EU/mg of rHuENA-78/CXCL5 as determined by LAL method.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
<b>Storage Buffer</b>	Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 50mM 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 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	CXCL5 chemokine (C-X-C motif) ligand 5 [ Homo sapiens ]
<b>Official Symbol</b>	CXCL5
<b>Synonyms</b>	CXCL5; chemokine (C-X-C motif) ligand 5; SCYB5, small inducible cytokine subfamily B (Cys X Cys), member 5 (epithelial derived neutrophil activating peptide 78); C-X-C motif chemokine 5; ENA 78; ENA-78(1-78); small inducible cytokine B5; small-

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inducible cytokine B5; neutrophil-activating protein 78; neutrophil-activating peptide ENA-78; epithelial-derived neutrophil activating protein 78; epithelial-derived neutrophil-activating peptide 78; epithelial-derived neutrophil-activating protein 78; small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78); SCYB5; ENA-78;

**Gene ID** [6374](#)

**mRNA Refseq** [NM\\_002994](#)

**Protein Refseq** [NP\\_002985](#)

**MIM** [600324](#)

**UniProt ID** [P42830](#)

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