CXCL5
Recombinant Human CXCL5 (aa 8-78)

Catalog No.	CS278A	**Quantity:**	5 µg
	CS278B		20 µg
	CS278C		1 mg

Alternate Names: ENA-78, SCYB5, C-X-C motif chemokine 5, ENA-78 (1-78), Epithelial-derived neutrophil activating protein 78, Small inducible cytokine B5, Small inducible cytokine subfamily B (Cys-X-Cys)

Description: 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.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Gene ID: 6374

Source: *E. coli*

Molecular Weight: Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 71 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 2x PBS, pH 7.4.

Purity: >95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg of recombinant Human ENA-78/CXCL5 (aa 8-78) as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a chemotaxis bioassay using human peripheral blood neutrophils is less than 10 ng/ml, corresponding to a specific activity of $>1\times10^5$ IU/mg.

Amino Acid Sequence: LRELRCVCLQ TTQGVHPKMI SNLQVFAIGP QCSKVEVVAS LKNGKEICLD PEAPFLKKVI QKILDGGNKE N

Reconstitution: 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.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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