

## CXCL5

### Recombinant Human CXCL5

|                                 |   |                  |                         |
|---------------------------------|---|------------------|-------------------------|
| <b>Catalog No.</b>              | CRE300A<br>CRE300B<br>CRE300C   | <b>Quantity:</b> | 5 µg<br>20 µg<br>1.0 mg |
| <b>Alternate Names:</b>         | Epithelial Neutrophil-Activating Protein 78, ENA-78, SCYB5, AMCF-2, GCP-2, LIX  |                  |                         |
| <b>Description:</b>             | Human ENA-78/CXCL5(5-78a.a.) 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>Source:</b>                  | <i>E. coli</i>  |                  |                         |
| <b>Molecular Weight:</b>        | 8.0 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.   |                  |                         |
| <b>Formulation:</b>             | Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl.   |                  |                         |
| <b>Purity:</b>                  | >97% by SDS-PAGE and HPLC analyses.   |                  |                         |
| <b>Endotoxin Level:</b>         | Less than 1EU/µg of rHuENA-78/CXCL5 as determined by LAL method.  |                  |                         |
| <b>Physical Appearance:</b>     | Sterile Filtered White lyophilized (freeze-dried) powder.   |                  |                         |
| <b>Biological 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.  |                  |                         |
| <b>Amino Acid Sequence:</b>     | AAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQCSKVEVVASLNGKEICLDPEAPFLKKVIQKILDGGNKEN   |                  |                         |
| <b>Reconstitution:</b>          | <b>Centrifuge vial prior to opening.</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>Storage &amp; Stability:</b> | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. <b>Avoid repeated freeze/thaw cycles.</b>  |                  |                         |

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Cell Sciences®  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)