

Overview

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| Synonyms | ENA-78/CXCL5 (5-78a.a.), Human; |
| 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. |
| Species Source | Human <i>E. coli</i> |
| Biological Activity | 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 ng/ml. |
| Sequence | AAVLRRLRCV CLQTTQGVHP KMISNLQVFA IGPQCSKVEV VASLKNKKEI CLDPEAPFLK KVIQKILDGG NKEN |

Properties

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| Measured Molecular Weight Purity | Approximately 8.1 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids. > 97 % by SDS-PAGE and HPLC analyses. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl. |
| 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 d -20 °C. Further dilutions should be made in appropriate buffered solutions. |
| Endotoxin Level | Less than 1 EU/µg of rHuENA-78, 5-78a.a./CXCL5 as determined by LAL method. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Usage | This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. |
| Storage | 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. Avoid repeated freeze/thaw cycles. |

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