Recombinant Human Epithelial Neutrophil Activating Peptide-78, 1-78 a.a./CXCL5 (rHuENA-78,1-78a.a./CXCL5)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	201-05A
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 8.3 kDa, a single non-glycosylated polypeptide chain containing 78 amino acids.
Quantity:	5μg/20μg/100μg/250μg
AA Sequence:	AGPAAAVLRE LRCVCLQTTQ GVHPKMISNL QVFAIGPQCS KVEVVASLKN GKEICLDPEA PFLKKVIQKI LDGGNKEN
Purity:	> 97 % by SDS-PAGE analyses.
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 5.0-10.0 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 500 mM NaCl.
Endotoxin:	Less than 1 EU/μg of rHuENA-78, 1-78a.a./CXCL5 as determined by LAL method.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**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.
Usage:	**ChemWhat Limited in UK offers this branded product for research, development or further** evaluation purposes. **NOT FOR HUMAN USE.**

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

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.