

# ENA-78/CXCL5

Catalog # PVGS1104

## Product Information

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<b>Primary Accession Species</b>	<a href="#">P42830</a> Human
<b>Sequence</b>	Ala41-Asn114
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level Biological Activity</b>	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.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	8.1 kDa
<b>Formulation Reconstitution</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in 20 mM PB, pH 7.4, 50 mM NaCl. It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

## Additional Information

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<b>Gene ID</b>	6374
<b>Other Names</b>	C-X-C motif chemokine 5, ENA-78(1-78), Epithelial-derived neutrophil-activating protein 78, Neutrophil-activating peptide ENA-78, Small-inducible cytokine B5, ENA-78(8-78), ENA-78(9-78), CXCL5, ENA78, SCYB5
<b>Target Background</b>	Epithelial cell derived neutrophil activating peptide (ENA78) also known as C-X-C motif chemokine 5(CXCL5), is a small cytokine belonging to the CXC chemokine family. It is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. Expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon, IFN- $\gamma$ . This chemokine stimulates the chemotaxis of neutrophils possessing angiogenic properties. Full length CXCL5 (78 aa) is trimmed at the Nterminal end by cathepsin G and

chymotrypsin to ENA-74 (74 aa) and ENA-70 (70aa), with the shortened forms showing increased potency relative to full length CXCL5. CXCL5 can signal through the CXCR2 receptor.

## Protein Information

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<b>Name</b>	CXCL5
<b>Synonyms</b>	ENA78, SCYB5
<b>Function</b>	Involved in neutrophil activation. In vitro, ENA-78(8-78) and ENA-78(9-78) show a threefold higher chemotactic activity for neutrophil granulocytes.
<b>Cellular Location</b>	Secreted.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.