

Rev04  
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**DATASHEET**

# ENA-78/CXCL5, Human(HEK 293-expressed)

Cat. No.: Z03255

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>CXCL5 (Ala37-Asn114)</b> Accession # P42830
<b>Purity</b>	> 98% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	The EC <sub>50</sub> value of human ENA-78/CXCL5 on Ca <sup>2+</sup> mobilization assay in CHO-K1/ Gα15/hCXCR2 cells (human Gα15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 200.0 ng/ml.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	~8.5 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** 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-γ. 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.

**Synonyms** : C-X-C motif chemokine 5; ENA-78; Epithelial-derived neutrophil-activating protein 78; Neutrophil-activating peptide ENA-78; Small-inducible cytokine B5; ENA78; SCYB5

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