

Rev04
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DATASHEET

ENA78/CXCL5(9-78 a.a.), Human

Cat. No.: Z03271

Product Introduction

Species	Human
Protein Construction	CXCL5 (Arg45-Asn114) Accession # P42830
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	The EC ₅₀ value of human ENA78/CXCL5 (9-78 a.a.) on Ca ²⁺ mobilization assay in CHO-K1/G15/hCXCR2 cells (human G15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 50.0 ng/ml.
Expression System	E. coli
Apparent Molecular Weight	~7.7 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	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 ₂ O or PBS up to 100 μg/ml.
Storage & Stability	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-α. 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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