

Active Recombinant Human CXCL5 Protein (9-78, 70 aa)

Cat. No. CXCL5-424C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ENA-78/CXCL5 (9-78a.a.) produced in E. coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhENA-78/CXCL5 (9-78a.a.) has a molecular mass of 7.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	70
Description	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 a.a.) is cleaved at the Nterminal end by cathepsin G and chymotrypsin to ENA-74 (74 a.a.) and ENA-70 (70a.a.), with the shortened forms showing increased potency relative to full length CXCL5. CXCL5 can signal through the CXCR2 receptor.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of human ENA78/CXCL5 (9-78 a.a.) on Ca ²⁺ mobilization assay in CHO-

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	K1/Gα15/hCXCR2 cells (human Gα15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 50 ng/mL.
Molecular Mass	7.7 kDa, observed by reducing SDS-PAGE.
AA Sequence	RELRCVCLQTTQGVHPKMISNLQVFAIGPQCSKVEVVASLKNNGKEICLDPEAPFLKK VIQKILDGGNKEN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant human ENA78/CXCL5 (9-78a.a.) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human ENA78/CXCL5(9-78) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	CXCL5 chemokine (C-X-C motif) ligand 5 [Homo sapiens]
Official Symbol	CXCL5
Synonyms	CXCL5; chemokine (C-X-C motif) ligand 5; SCYB5, small inducible cytokine subfamily B (Cys X Cys), member 5 (epithelial derived neutrophil activating peptide 78); C-X-C motif chemokine 5; ENA 78; ENA-78(1-78); small inducible cytokine B5; small-inducible cytokine B5; neutrophil-activating protein 78; neutrophil-activating peptide

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ENA-78; epithelial-derived neutrophil activating protein 78; epithelial-derived neutrophil-activating peptide 78; epithelial-derived neutrophil-activating protein 78; small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78); SCYB5; ENA-78;

Gene ID 6374

mRNA Refseq NM_002994

Protein Refseq NP_002985

MIM 600324

UniProt ID P42830

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