Epithelial Neutrophil-Activating Protein 78 Active Protein | ENA 78 active protein

Recombinant Human Epithelial Neutrophil-Activating Protein 78 (CXCL5)

CATALOG #	HOST
AAA38090	**E Coli**

PRODUCT SYNONYMS

Epithelial Neutrophil-Activating Protein 78; Recombinant Human Epithelial Neutrophil-Activating Protein 78 (CXCL5); ENA 78 Human; Epithelial Neutrophil-Activating Protein 78 Human Recombinant (CXCL5); Small inducible cytokine B5; CXCL5; Epithelial-derived neutrophil-activating protein 78; Neutrophil-activating peptide ENA-78; ENA-78(1-78); chemokine (C-X-C motif) ligand 5; SCYB5; ENA 78 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The CXCL5 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obe,Ala-Al a-Val-Leu- Arg
Sequence Length	114
Solubility	It is recommended to reconstitute the lyophilized ENA-78 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human neutrophils. Significant calcium mobilization is observed with 100ng/mL (corresponding to a Specific Activity of 10,000IU/mg) of recombinant human ENA-78.
Preparation and Storage	Lyophilized ENA78 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution CXCL5 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ENA 78 active protein	**Description:** Epithelial Neutrophil-Activating Protein 78 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8020 Dalton. The CXCL5 is purified by proprietary chromatographic techniques. **Introduction:** Chemokine (C-X-C motif) ligand 5 (CXCL5) is a small cytokine belonging to the CXC chemokine family that is 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. Expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon IFN-?. This chemokine stimulates the chemotaxis of neutrophils possesses angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2. The gene for CXCL5 is encoded on four exons and is located on human chromosome 4 amongst several other CXC chemokine genes. CXCL5 has been implicated in connective tissue remodelling.
Product Categories/Family for ENA 78 active protein	Chemokines; ENA 78

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506849

NCBI GeneID	6374
NCBI Accession #	NP_002985.1
NCBI GenBank Nucleotide #	NM_002994.4
UniProt Accession #	P42830; Q96QE1
Molecular Weight	11,972 Da
NCBI Official Full Name	C-X-C motif chemokine 5
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 5
NCBI Official Symbol	CXCL5
NCBI Official Synonym Symbols	SCYB5; ENA-78
NCBI Protein Information	C-X-C motif chemokine 5; epithelial-derived neutrophil-activating protein 78; neutrophil-activating peptide ENA-78; small inducible cytokine subfamily B (Cys-X-Cys), member 5 (epithelial-derived neutrophil-activating peptide 78)
UniProt Protein Name	C-X-C motif chemokine 5
UniProt Gene Name	**CXCL5**
UniProt Synonym Gene Names	ENA78; SCYB5
UniProt Entry Name	CXCL5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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