Overview

Synonyms	Epithelial Neutrophil Activating Peptide-78, CXCL5
Description	Epithelial cellderived neutrophilactivating 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-^{3}. 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. CXCL5can signal through the CXCR2 receptor. Recombinant **human ENA-78/CXCL5 (5-78a.a.)** produced in *E.coli* is a single non-glycosylated polypeptide chain containing 74 amino acids. A fully biologically active molecule, rh ENA-78/CXCL5 (5-78a.a.) has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P42830
Species	Human
Source	*E. coli*
Biological Activity	The EC_{50} value of human ENA-78/CXCL5 (5-78a.a.) on Ca^{2+} mobilization assay in CHO-K1/ G±15/hCXCR2 cells (human G±15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 50 ng/ml.
Sequence	AAVLRELRCV CLQTTQGVHP KMISNLQVFA IGPQCSKVEV VASLKNGKEI CLDPEAPFLK KVIQKILDGG NKEN

Properties

Measured Molecular Weight	8 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **human ENA-78/CXCL5 (5-78a.a.)** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human ENA-78/CXCL5 (5-78a.a.) should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

India Contact:
Life Technologies (India) Pvt. Ltd.
306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).
Mobile: +91-9810521400, Ph: +91-11-42208000
Email: customerservice@lifetechindia.com
Web: www.lifetechindia.com