

Overview

Synonyms	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.
Description	Epithelial-derived neutrophil-activating peptide 78 (ENA-78) 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 ENA-78 has also been observed in eosinophils, and can be inhibited with the type II interferon, IFN- γ . ENA-78 stimulates the chemotaxis of neutrophils possessing angiogenic properties. It plays a role in reducing sensitivity to sunburn pain in some subjects, and could be a potential target used to understand more about pain in other inflammatory conditions. ENA-78 is well known to have chemotactic and activating functions on neutrophils, mainly during acute inflammatory responses. It can signal through the CXCR2 receptor. Recombinant ENA-78/CXCL5 produced in 293 cells is a single polypeptide chain containing 78 amino acids. rhENA-78/CXCL5 has a molecular mass of 8.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	P42830
Species	Human
Source	HEK 293
Biological Activity	The EC ₅₀ value of human ENA-78/CXCL5 on Ca ²⁺ mobilization assay in CHO-K1/G \pm 15/hCXCR2 cells (human G \pm 15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/ml.
Sequence	AGFAAAVLRE LRCVCLQTTQ GVHPKMISNL QVFAIGPQCS KVEVVASLKN GKEICLDPEA PFLKKVIQKI LDGGNKEN

Properties

Measured Molecular Weight	8.5 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxin Level	< 0.2 EU/ μ g, determined by LAL method.
Storage	Lyophilized recombinant human ENA-78/CXCL5 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human ENA-78/CXCL5 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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