

DATASHEET
Version 20181206**ENA-78/CXCL5, Human(HEK 293-expressed)****Cat. No.:** Z03255-25**Size:** 25.0 ug

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 at GenScript.

Amino Acid Sequence:

00001 AGPAAAVLRE LRCVCLQTTQ GVHPKMISNL QVFAIGPQCS
00041 KVEVVASLKN GKEICLDPEA PFLKKVIQKI LDGKNKEN

Source: HEK 293**Species:** Human

Biological Activity: The EC₅₀ value of human ENA-78/CXCL5 on Ca²⁺ mobilization assay in CHO-K1/ G α 15/hCXCR2 cells (human G α 15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/ml.

Molecular Weight: 8.5 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Purity: > 98% as analyzed by SDS-PAGE.

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.