

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant ENA78/CXCL5(9-78 a.a.), Human

Catalog Number: BK0030-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Epithelial cell derived neutrophil activating peptide (ENA-78) 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 N terminal end by cathepsin G and chymotrypsin to ENA-74 (74 a.a.) and ENA-70 (70 a.a.), with the shortened forms showing increased potency relative to full length CXCL5. CXCL5 can signal through the CXCR2 receptor. Recombinant human ENA-78/CXCL5 (9-78 a.a.) produced in E. coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhENA-78/CXCL5 (9-78 a.a.) has a molecular mass of 7.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

7.7 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

The EC₅₀ value of human ENA78/CXCL5 (9-78 a.a.) on Ca²⁺ 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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

RELRCVCLQTTQGVHPKMISNLQVFAIGPQCS-
KVEVVASLKNNGKEICLDPEAP-
FLKKVIQKILDGGNKEN

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

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

Storage:

Lyophilized recombinant human ENA78/CXCL5 (9-78 a.a.) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, human ENA78/CXCL5(9-78) should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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