

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant ENA-78/CXCL5 (5-78aa), Human

Catalog Number: BK0029-1mg

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- $\gamma$ . This chemokine stimulates the chemotaxis of neutrophils possessing angiogenic properties. Full length CXCL5 (78 aa) is trimmed at the N terminal 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. CXCL5 can 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 at GenScript.

### Molecular Weight:

8 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE

### Biological Activity:

The EC<sub>50</sub> value of human ENA-78/CXCL5 (5-78a.a.) on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/hCXCR2 cells (human G $\alpha$ 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:

AAVLRELRCVCLQTTQGVHPKMISNLQVFAIG-  
PQCSKVEVVASLKNGKEICLDPEAP-  
FLKKVIQKILDGGNKEN

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant human ENA-78/CXCL5 (5-78a.a.) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, human ENA-78/CXCL5 (5-78a.a.) 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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