

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant GRO-β/CINC-3/CXCL2, Rat

Catalog Number: BK0071-25μg

Source: Escherichia coli.

Quantity: 25μg

### Description:

Chemokine (C-X-C motif) ligand 2(CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 shares 90% amino acid sequence with CXCL1/GROα. The GRO proteins are chemotactic for neutrophils and basophils and can activate them through their CXCR1 or CXCR2 receptors. Recombinant Rat GRO-β/CINC-3/CXCL2 produced in E.coli is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rrGRO-β has a molecular mass of 7.6kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

7.6 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

The EC50 value of Rat GRO-β/CINC-3/CXCL2 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 10 ng/ml.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

SELRCQCLTTLPRVDFKNIQSLTVTPPGPHCAQ-  
TEVI-  
ATLKDGHVCLNPEAPLVQRIVQKILNKGKAN

### Endotoxin:

< 0.2 EU/μg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

### Storage:

Lyophilized recombinant Rat GRO-β/CINC-3/CXCL2 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Rat GRO-β/CINC-3/CXCL2 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

### Usage:

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