

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant CINC-2 $\alpha$ /CXCL3, Rat

Catalog Number: BK0189-1mg

Source: CHO

Quantity: 1mg

### Description:

Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family that is also known as MIP2 $\beta$  (macrophage inflammatory protein 2 beta), or DCIP1 (dendritic cell inflammatory protein1) in mouse, CINC-2 (cytokine-induced neutrophil attractant 2) in rat, or GRO $\gamma$  (growth regulated oncogene gamma) in human. CXCL3 controls migration and adhesion of monocytes and mediates its effects on target cells by interacting with the cell surface chemokine receptor CXCR2. It has been shown that CXCL3 regulates cerebellar granule neuron precursors toward the internal layers of the cerebellum during cerebellum morphogenesis. CXCL3 is a potential target for medulloblastoma therapy. CXCL3 is regulated transcriptionally by BTG2. Recombinant Rat CINC-2 $\alpha$ /CXCL3 produced in CHO cells is a polypeptide chain containing 68 amino acids. A fully biologically active molecule, rrCINC-2 $\alpha$ /CXCL3 has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

7.6 kDa, observed by reducing SDS-PAGE.

### Purity:

> 98% as analyzed by SDS-PAGE.

### Biological Activity:

The EC50 value of rat CINC-2 $\alpha$ /CXCL3 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Ga15/rCXCR2 cells (human G 15 and ratCXCR2 stably expressed in

CHO-K1 cells) is less than 100 ng/ml.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

RELRCQCLKTLPRVDFENI-  
QSLTVTPPGPHCTQTEVI-  
ATLKDGQEVCLNPQAPRLQKIIQKLLKSDKS

### 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 Rat CINC-2 $\alpha$ /CXCL3 remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, recombinant Rat CINC-2 $\alpha$ /CXCL3 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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