

## Product Information

### Cytokine-Induced Neutrophil Chemoattractant-2 $\alpha$

Rat ,Recombinant

Expressed in *E. coli*

Product Number **C-263**

Storage Temperature  $-20^{\circ}\text{C}$

#### Product Description

CINC-2 $\alpha$  (Cytokine-Induced Neutrophil Chemoattractant-2 $\alpha$ ) and CINC-2 $\beta$  (Cat. No. C-264) were originally purified as novel neutrophil chemoattractants from the conditioned medium of rat granulation tissue (also present in LPS-induced inflammatory exudate) which also contain CINC-1 (Cat. No. C-262) and CINC-3. Both mature CINC-2 $\alpha$  and CINC-2 $\beta$  contain 68 amino acid residues. The amino acid sequences of the CINC-2 proteins are identical except for three carboxy-terminal residues. CINC-2 $\beta$  cDNA encodes a 100 amino acid residue precursor protein with a 32 residue signal peptide that is removed to yield the mature secreted protein. Mature CINC-2 proteins are 63% identical to CINC-1 and 80% identical to CINC-3. Other cell types known to produce CINC-2 proteins include activated macrophages and fibroblasts. On the basis of cross-desensitization results of the various CINC proteins, it has been postulated that rat neutrophils have at least two classes of CINC receptors: a class of CINC-3-specific receptor as well as a second common receptor shared by all CINC.

#### Preparation Instructions

Reconstitute the contents of the vial using sterile phosphate buffered saline (PBS) containing at least 0.1% human serum albumin or bovine serum albumin to prepare a stock solution of no less than 50  $\mu\text{g}/\text{ml}$ .

#### Storage/Stability

Prior to reconstitution, store tightly sealed at  $-20^{\circ}\text{C}$ . After reconstitution and for continuous use, store at  $2 - 8^{\circ}\text{C}$  for up to one month. For extended storage, solution may be frozen in working aliquots. Storage in "frost-free" freezers is not recommended. Repeated freezing and thawing is not recommended.

#### Procedure

The biological activity of CINC-2 $\alpha$ , rat is measured by its ability to induce myeloperoxidase release from cytochalasin-B treated human neutrophils.<sup>3</sup> The ED50 for this effect is typically 3 - 6  $\mu\text{g}/\text{ml}$ .

#### Product Profile

Source: A DNA sequence encoding mature rat CINC-2 $\alpha$  protein was expressed in *E. coli*.<sup>1,2</sup>

Molecular Weight: Approx. 7.6 kDa recombinant protein containing 68 amino acids

Purity: >97% purity as determined by SDS-PAGE

Formulation: Lyophilized from a sterile filtered solution in 30% acetonitrile and 0.1% TFA, containing 50  $\mu\text{g}$  of bovine serum albumin per 1  $\mu\text{g}$  of cytokine

#### References

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5. Al-Mokdad, M., et al. *Biol. Pharm. Bull.* **19**, 879-881 (1996).
6. Murakami, K., et al. *Biochem. Biophys. Res. Commun.* **232**, 562-567 (1997).
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