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## Product Information

### CYTOKINE- INDUCED NEUTROPHIL CHEMOATTRACTANT-1 (CINC-1)

Rat, Recombinant  
Expressed in *E. coli*

Product No. **C 9709**

#### Product Description

CINC-1 is a potent chemoattractant of rat neutrophils first identified and purified by Watanabe, K., et al.<sup>1,2</sup> Sequence evaluation shows that the CXC chemokine or  $\alpha$ -chemokine has a complete sequence of 96 amino acid residues and 72 amino acid residues as a mature protein.

Additional studies have confirmed that CINC-1 is a member of the connective tissue-activating peptide III (CTAP-III)-related protein family.<sup>2</sup> Overall, the implication is that neutrophil migration may occur independent of chemotactic factors derived from serum.

The biological activity of recombinant rat CINC-1 was tested in culture by measuring its ability to induce the release of myeloperoxidase from cytochalasin B treated human neutrophils.<sup>3</sup> The EC<sub>50</sub> is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell based bioassay.

#### Reagents

Lyophilized from 0.2  $\mu$ m-filtered solution of 30% acetonitrile, 0.1% trifluoroacetic acid, pH 2.0 containing C500  $\mu$ g bovine serum albumin (BSA) as a carrier protein.

#### Reconstitution

Reconstitute the contents of the vial using sterile-filtered phosphate buffered saline (PBS) containing 0.1% human serum albumin (HSA) or BSA to a concentration of no less than 10  $\mu$ g/ml.

#### Storage/Stability

Prior to reconstitution, store at – 20 °C. After reconstitution, this product can be stored at 2-8 °C for three months. For extended storage, freeze in working aliquots at –20 °C or – 70 °C. Repeated freezing and thawing are not recommended.

#### References

1. Watanabe, K., et al., Biochem. Biophys. Res. Commun., **161**, 1093-1099, (1989).
2. Watanabe, K., et. al., J. Biol. Chem., **264** (33), 19559-19563, (1989).
3. Schroder, J. M., et al., J. Immunol. , **139**, 3474-3483, (1987).

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