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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.^{1,2} Sequence evaluation shows that the CXC chemokine or α -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.² 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.³ The EC₅₀ 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 μ m-filtered solution of 30% acetonitrile, 0.1% trifluoroacetic acid, pH 2.0 containing C500 μ 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 μ 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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