

Recombinant Rat Cytokine-induced Neutrophil Chemoattractant 1/CXCL1

#R00443

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Rat CXCL1, also known as CINC-1, is belonging to the CXC chemokine family. It is encoded by the GRO gene now designated CXCL1. It was originally purified from media conditioned by IL-1 β stimulated rat kidney epithelioid cells. CINC-1 is member of the intercrine alpha (chemokine C-X-C) subfamily of chemokines. CXCL1 is secreted by human melanoma cells, and also expressed by macrophages, neutrophils and epithelial cells. The functional receptor for CXCL1 has been identified as CXCR2. CXCL1 has chemotactic activity for neutrophils, and plays a role in inflammation and wound healing. Amino acid sequence of rat CXCL1 is approximately 68 % identical to the human CXCL1.

AA Sequence

APVANELRCQCLQTVAGIHFKNIQSLKVMPPGPHCTQ
TEVIATLKNGREACLDPEAPMVQKIVQKMLKGVPK

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	GRO-alpha, Platelet-derived Growth Factor-inducible Protein KC
Accession	P14095
GeneID	81503
Species	Rat
Source	Escherichia coli.
Molecular Weight	Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 72 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using rat neutrophils is in a concentration range of 10-100 ng/ml.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin	Less than 1 EU/µg of rRtCINC-1/CXCL1 as determined by LAL method.