

Recombinant Rat Cytokine-induced Neutrophil Chemoattractant 1/CXCL1 (rRtCINC-1/CXCL1)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	241-01
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 72 amino acids.
Quantity:	5µg/25µg /1000µg
AA Sequence:	APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHTQTEV IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK
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 Appearance:	Sterile Filtered White lyophilized (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.
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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Rat Cytokine-induced Neutrophil Chemoattractant 1/CXCL1

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-1β 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.