

DATASHEET

Version 20181206

GRO- α /CXCL1, Rat**Cat. No.:** Z02858-25**Size:** 25.0 ug**Synonyms:** GRO alpha/CXCL1, Rat;**Description:**

All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils. Recombinant rat GRO/KC is a 7.8 kDa protein consisting of 72 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

Amino Acid Sequence:

00001 APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHTQTQEV
00041 IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK

Source: *E. coli***Species:** Rat

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.

Molecular Weight: Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 72 amino acids.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/ μ g of rRtCINC-1/CXCL1 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.