Recombinant Protein Technical Manual

Recombinant Mouse CXCL1 Protein (His Tag)

RPES0205

Product Data:

Product SKU: RPES0205

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P12850

Protein Information:

Molecular Mass: 9.4 kDa

AP Molecular Mass: 11—13 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Growth-regulated alpha protein;C-X-C motif chemokine 1;Platelet-derived growth factor-inducible protein KC;Secretory protein N51;Cxcl1;Gro; Gro1; Mgsa; Scyb1

Immunogen Information:

Sequence: Arg20-Lys96

Background:

Growth-regulated alpha protein (CXCL1,KC), is a member of the alpha chemokine subfamily, was initially identified as an immediate early gene induced in mouse fibroblasts by platelet-derived growth factor. The N-terminal processed form KC(5-72) of the protein is produced by proteolytic cleavage after secretion from bone marrow stromal cells, and shows a highly enhanced hematopoietic activity. Mouse KC shows approximately 63% identity to that of mouse MIP-2. KC is also approximately 60% identical to the human GROs. It has been suggested that mouse KC and MIP-2 are the orthologs of the human GROs and rat CINCs. Cxcl1 has chemotactic activity for neutrophils, and contributes to neutrophil activation during inflammation. Hematoregulatory chemokine, in vitro, suppresses hematopoietic progenitor cell proliferation.