

## Recombinant Murine Growth Factor alpha (rm GROa / KC / CXCL1)

The three isoforms of GRO are structurally related to Interleukin-8 and belong to the CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils. **GROa/KC** is expressed by macrophages, neutrophils and epithelial cells and has neutrophil chemoattractant activity. Murine GROa/KC also binds to human neutrophils. An initial study in mice showed evidence that GROa decreased the severity of multiple sclerosis and may offer a neuro-protective function.

Recombinant murine GROa/KC produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8 kDa.

<b>Synonyms :</b>	Keratinocyte-derived Chemokine, Secretary protein N51, MGSA, SCYB1, GRO-1
<b>Source:</b>	<i>Escherichia coli</i>
<b>AA Sequence:</b>	RLATGAPIANELRCQ CLQTMAGIHL KNIQSLKVLP SGPHCTQTEV IATLKNAREA CLDPEAPLVQ KIVQKMLKGV PK.
<b>Formulation:</b>	Lyophilisate from a 0.22 µm filtered carrier free solution in 50 mM sodium phosphate pH 7.5 + 50mM NaCl
<b>Reconstitution:</b>	Reconstitute in sterile endotoxin free water not less than 100 µg/ml
<b>Stability:</b>	The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm GROa/KC is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.
<b>Biological Activity:</b>	Determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human neutrophils. Significant calcium mobilization is observed with > 50ng/ml of recombinant human GRO-alpha.
<b>Purity:</b>	95% (verified by SDS-PAGE / silver stain)
<b>Endotoxicity:</b>	The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method
<b>Order N°:</b>	rm GROa+Size available sizes: 5 µg, 20 µg, 100 µg

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