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GRO1/KC Mouse, His

Catalog #:CHPS-009

For research use only.

Description:GRO1/KC Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 97 amino acids (25-96 a.a.) and having a molecular mass of 10.5kDa.GRO1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Growth-regulated alpha protein, CXCL1, Platelet-derived growth factor-inducible protein KC, Secretory protein N51, KC, Fsp, N51, gro, Gro1, Mgsa, Scyb1, chemokine (C-X-C motif) ligand 1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMAPIAN ELRCQCLQTM AGIHLKNIQS LKVLPSGPHC TQTEVIATLK NGREACLDPE APLVQKIVQK MLKGVPK.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
GRO1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.1M NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
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Introduction:
Chemokine (C-X-C motif) ligand 1 (CXCL1) is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSGA-a). It is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation, wound healing, and tumorigenesis. This chemokine elicits its effects by signaling throμgh the chemokine receptor CXCR2. The gene for CXCL1 is located on human chromosome 4 amongst genes for other CXC chemokines.

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