

GRO-Alpha Rat Recombinant (CXCL1)

Item Number	rAP-0163
Synonyms	Growth-regulated protein alpha, CXCL1, Melanoma growth stimulatory activity, MGSA, Neutrophil-activating protein 3, NAP-3, GRO-alpha(1-73), chemokine (C-X-C motif) ligand 1, GRO1, GROa, SCYB1, MGSA-a, MGSA alpha.
Description	CXCL1 Rat Recombinant produced in E.Coli is a single,non-glycosylated, polypeptide chain containing 73 amino acids and having a molecular mass of 7.8 kDa. The Rat CXCL1 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P14095
Amino Acid Sequence	APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHTCTQTEV IATLKNGREA CLDPEAPMVQ KI-VQKMLKGV PK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized CXCL1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL1 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in 20mM PB, pH 7.4, and 150mM NaCl. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized CXCL1 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to chemoattract rat neutrophils using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**