



Recombinant Human GRO-alpha - MGSA (CXCL1)

20150302BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-031S
Size:	5 µg
Lot. No.:	According to product label

Sequence

ASVATELRQC CLQTLQGIHP KNIQSVNVKS PGPHCAQTEV
IATLKNRKA CLNPASPIVK KIIIEKMLNSD KSN

Database References

Protein RefSeq:	NP_001502.1
Uniprot ID:	P03941
mRNA RefSeq:	NM_001511.3

Scientific Background

Gene-ID (NCBI):	2919
Synonyms:	CXCL1; FSP; GRO1; GROa; MGSA; NAP-3; SCYB1; MGSA-a

Human GRO alpha (also known as MGSA) promotes neutrophil chemotaxis and degranulation. It also stimulates mitogenesis in certain human melanoma cells. Human GROa is a 7.8 kDa protein containing 73 amino acid residues

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	73
MW:	7.8 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by its ability to chemoattract human neutrophils using a concentration range of 10-50 ng/ml.