

TECHNICAL DATA SHEET

Recombinant Human CXCL1 (GRO/MGSA) (Carrier-free)

Catalog Number: 21-7029

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human CXCL1 (GRO/MGSA) (Carrier-free)

DESCRIPTION

GRO/MGSA, also known as GRO-alpha, belongs to the CXC chemokine family and promotes neutrophil chemotaxis. GRO/MGSA is expressed by macrophages, neutrophils and epithelial cells exerts its effects through binding to the CXCR2 receptor.

MOLECULAR MASS

Recombinant human GRO/MGSA is a 7.8 kDa protein consisting of 73 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

AMINO ACID SEQUENCE

ASVATELRRCQ CLQTLQGIHP KNIQSVNVKS PGPHCAQTEV IATLKNRKA CLNPASPIVK KIIKMLNSD KSN

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Bacteria, Hamster, Monkey, Mouse, Rat

BIOACTIVITY

Determined by its ability to chemoattract human neutrophils using a concentration range of 10.0-50.0 ng/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Chemotaxis; Inflammation; Neurobiology; Wound Healing

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Anisowicz A, Bardwell L, Sager R. 1987. Proc Natl Acad Sci U S A. 84(20): 7188-7192. Caunt M, Hu L, Tang T, Brooks PC, Ibrahim S, Karparkin S. 2006. Cancer Res. 66(8):4125-4132. Datta S, Novotny M, Pavicic PG Jr, Zhao C, Herjan T, Hartupee J, Hamilton T. 2010. J Immunol. 184(3): 1484-1491.

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