

TECHNICAL DATA SHEET

Recombinant Human CXCL2 (GRO-beta) (Carrier-free)

Catalog Number: 21-7031

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CXCL2 (GRO-beta) (Carrier-free)

DESCRIPTION

CXCL2 is a member of the CXC chemokine family and is also known as GRO-beta (MIP2-alpha in mice). CXCR2 is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. CXCL2 exerts its effects through binding to the CXCR2 receptor.

MOLECULAR MASS

Recombinant human GRO-beta is a 7.9 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

APLATELRRCQ CLQTLQGIHL KNIQSVKVKVSG PGPHCAQTEV IATLKNQKKA CLNPASPMVK KIIKMLKNG 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

BIOACTIVITY

Determined by its ability to chemoattract CXCR2 transfected 293 cells using a concentration range of 10.0-100.0 ng/ml.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Haskill S, Peace A, Morris J, Sporn SA, Anisowicz A, Lee SW, Smith T, Martin G, Ralph P, Sager R. 1990. Proc Natl Acad Sci U S A. 87(19): 7732-7736. De Plaen IG1, Han XB, Liu X, Hsueh W, Ghosh S, May MJ. 2006. Immunology. 118(2): 153-163.

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