

TECHNICAL DATA SHEET

Recombinant Mouse CXCL1 (KC) (Carrier-free)

Catalog Number: 21-7030

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse CXCL1 (KC) (Carrier-free)

DESCRIPTION

CXCL1, also known as GRO-alpha (KC in mice), belongs to the CXC chemokine family and promotes neutrophil chemotaxis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells exerts its effects through binding to the CXCR2 receptor.

MOLECULAR MASS

Recombinant murine KC is a 7.8 kDa protein consisting of 72 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

AMINO ACID SEQUENCE

APIANELRCQ CLQTMAGIHL KNIQSLKVLP SGPHCTQTEV IATLKNGREA CLDPEAPLVQ KIVQKMLKGV PK

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

Human, Rat

BIOACTIVITY

Determined by its ability to chemoattract total human neutrophil population 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

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.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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