

TECHNICAL DATA SHEET

Recombinant Human IL-8 (CXCL8) (Carrier-free)

Catalog Number: 21-8089

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human IL-8 (CXCL8) (Carrier-free)

DESCRIPTION

IL-8, also known as CXCR8, is a member of the CXC family of chemokines and is expressed by many cell types including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, keratinocytes, hepatocytes, chondrocytes, and various tumor cell lines. IL-8 is a neutrophil chemoattractant and activating factor, and signals through CXCR1 and CXCR2 receptors.

MOLECULAR MASS

Recombinant human IL-8 (monocyte-derived) is an 8.4 kDa protein containing 72 amino acid residues.

AMINO ACID SEQUENCE

SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS

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, Monkey, Mouse, Rat

BIOACTIVITY

Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0-100.0 ng/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Apoptosis; Chemotaxis; Inflammation; Neurobiology; Wound Healing; Allergy; Transplantation

RECONSTITUTION

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

REFERENCES

Baggiolini M, Loetscher P and Moser B. 1995. Int J Immunopharmacol. 17(2): 103-108. Murphy PM. 1997. Semin Hematol. 34(4): 311-318. Hashimoto S, Yoda M, Yamada M, Yanai N, Kawashima T and Motoyoshi K. 1996. Exp Hematol. 24(2): 123-128. Emadi S, Clay D, Desterke C, Guerton B, Maquarre E, Charpentier A, Jasmin C and Le Bousse-Kerdilès MC. 2005. Blood. 105: 464-473.

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