

TECHNICAL DATA SHEET

# Recombinant Human Chemerin (Carrier-free)

Catalog Number: 21-7145

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

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Recombinant Human Chemerin (Carrier-free)

**DESCRIPTION**

Chemerin, an adipokine and member of the Cystatin superfamily, is highly expressed in white adipose tissue. It is a ligand for the GPCR ChemR23 (CMKLR1, DEZ) and it acts as a chemoattractant for cells expressing this receptor. Chemerin is a secreted protein that, after cleavage by serine protease, becomes an active protein that can be found in plasma and serum. Studies show bioactive chemerin generation occurs during the early stages of inflammation, implicating a role as a bridge between innate and adaptive immunity.

**MOLECULAR MASS**

Recombinant Human Chemerin consists of 135 amino acids, resulting in a 15.6 kDa protein.

**AMINO ACID SEQUENCE**

ELTEAQRRLGL QVALEEFHKH PPVQWAFQET SVESAVDTPF PAGIFVRLFEF KLQQTSCRKR DWKKPECKVR PNGRKRKCLA CIKLGSEDKV LGRLVHCPPIE TQVLRFAEEH QETQCLRVR AGEDPHSFYF PGQFA

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**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**

**BIOACTIVITY**

Within a concentration range of 1.0-100.0 ng/ml, the ability to chemoattract human immature dendritic cells is determined.

**RESEARCH AREAS**

Immune System, Chemotaxis, Diabetes, Lipid Metabolism

**RECONSTITUTION**

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

**REFERENCES**

Wittamer V, Bondue B, Guillaubert A, Vassart G, Parmentier M and Communi D. J Immunol. 2005. 175(1): 487-493. Bondue B, Wittamer V, Parmentier M. Cytokine Growth Factor Rev. 2011. 22(5-6): 331-338. Goralski KB, McCarthy TC, Hanniman EA, Zabel BA, Butcher EC, Parlee SD, Muruganandan S and Sinal CJ. 2007. J Biol Chem. 282(38): 28175-28188. Herová M, Schmid M, Gemperle C and Hersberger M. J Immunol. 2015. 194(5): 2330-2337.

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