Recombinant Human Chemerin

20190815BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**100-395**
Size:	25 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*5919*
Synonyms:	RARRES2; TIG2; HP10433

Chemerin is a secreted chemoattractant protein that can signal through the chemokine like receptor-1 (CMKLR1). It is expressed in various tissues, including white adipose tissue, and circulates in blood as an inactive 143 amino acid precursor protein. Biologically active Chemerin is generated by proteolytic removal of C-terminal residues by several circulating proteases. Chemerin acts as a chemoattractant for cells expressing the CMKLR1 receptor, which includes certain dendritic cells, macrophages, and adipocytes. Recombinant human Chemerin is a 15.6 kDa protein consisting of 135 amino acid residues.

Sequence

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ELTEAQRRGL QVALEEFHKH PPVQWAFQET SVESAVDTPF
PAGIFVRLEF KLQQTSCRKR DWKKPECKVR PNGRKRKCLA
CIKLGSEDKV LGRLVHCPIE TQVLREAEEH QETQCLRVQR
AGEDPHSFYF PGQFA
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Database References

Protein RefSeq:	NP_002880.1
Uniprot ID:	Q99969
mRNA RefSeq:	NM_002889.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	135
MW:	15.6 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/m. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by its ability to chemoattract human immature dendritic cells using a concentration range of 1-100 ng/ml.