



## Recombinant Human Chemerin

20190815BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

<b>Cat.-no.:</b>	<b>100-395S</b>
Size:	5 µg
Lot. No.:	According to product label

### Scientific Background

<b>Gene-ID (NCBI):</b>	5919
<b>Synonyms:</b>	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

ELTEAQRRLG QVALEEFHKK PPVQWAFQET SVESAVDTPF  
PAGIFVRLFF KLQQTSCRKR DWKKPECKVR PNGRKRKCLA  
CIKLGSEDKV LGRVLHCPIE TQVLREAEFH QETQCLRVQR  
AGEDPHSFYF PGQFA

### Database References

<b>Protein RefSeq:</b>	NP_002880.1
<b>Uniprot ID:</b>	Q99969
<b>mRNA RefSeq:</b>	NM_002889.3

### Product Specifications

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