

BACKGROUND

Chemerin is a chemoattractant expressed in white adipose, liver and lung tissues. Chemerin is a ligand for the G-protein coupled receptor known as ChemR23 (or chemokine-like receptor-1), which is expressed mainly on dendritic cells, macrophages and some adipocytes.

Recombinant human Chemerin is a non-glycosylated protein containing 138 amino acids and having a total molecular mass of 16 kDa.

Alternative Names:

Tazarotene-induced gene 2 (TIG2), RARRES2

Amino Acid Sequence:

MELTEAQRRLQVALEEFHKHPPVQWAFQETSVESAAVDTP
FPAGIFVRLFKLQQTSRKRDWKKPECKV RPNGRKRKCL
ACIKLGSEDKVLGRLVHCPIETQVLREAEHQETQCLRVQ
RAGEDPHSFYFPGQFAFS

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human Chemerin is lyophilized from 0.2% TFA.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by its ability to chemoattract human Chem23R transfected BaF3 mouse pro-B cells and is typically 4-20 ng/mL.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

