

For Research Use Only

Recombinant Human Chemerin protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3688

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human Chemerin protein Glu21-Ser157 (Accession# Q99969) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
5919

Accession:
Q99969

Predicted Molecular Mass:
42.2 kDa

SDS-PAGE:
42-48 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Chemerin, also named as TIG2 and RARRES2, is adipocyte-secreted protein (adipokine) that regulates adipogenesis, metabolism and inflammation through activation of the chemokine-like receptor 1 (CMKLR1). Its other ligands include G protein-coupled receptor 1 (GPR1) and chemokine receptor-like 2 (CCRL2). It positively regulates adipocyte differentiation, modulates the expression of adipocyte genes involved in lipid and glucose metabolism and might play a role in angiogenesis, a process essential for the expansion of white adipose tissue. RARRES2 have both pro- and anti-inflammatory properties depending on the modality of enzymatic cleavage by different classes of proteases.

References

1. Bozaoglu K, et al. (2007). Endocrinology, Oct;148(10):4687-94.
2. Ernst, M. C., et al. (2010). Trends Endocrinol Metab. Nov;21(11):660-667.
3. Mattern A, et al. (2014). IUBMB Life. Jan;66(1):19-26.

Synonyms

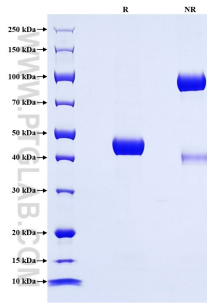
RARRES2, HP10433, RAR responsive protein TIG2, RAR-responsive protein TIG2, Tazarotene-induced gene 2 protein

For technical support and original validation data for this product please contact

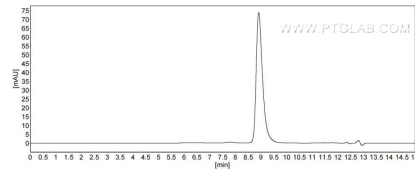
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Selected Validation Data



Purity of Recombinant Human Chemerin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human Chemerin was greater than 90% as determined by SEC-HPLC.