
Product Data Sheet

Product Name: RARRES2 Human
 Cat. No.: GP24340
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Chemerin; TIG2; Retinoic acid receptor responder protein 2; RAR-responsive protein TIG2; RARRES2; HP10433.		
Amino Acid Sequence	MELTEAQRRG LQVALEEFHK HPPVQWAFQE TSVESAAVDTP FPAGIFVRLE FKLQQTSRK RDWKKPECKV RPNGRKRKCL ACIKLGSEDK VLGRLVHCPI ETQVLREAEE HQETQCLRVQ RAGEDPHSFY FPGQFAFS.		
Solubility	It is recommended to reconstitute the lyophilized Chemerin in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The RARRES2 protein was lyophilized from 0.02% TFA.		

Introduction

RARRES2 is a secreted chemotactic protein that initiates chemotaxis through the ChemR23 G protein-coupled seven-transmembrane domain ligand. RARRES2 acts as an adipokine, and is truncated on both termini from the proprotein. RARRES2 is structurally related to the cathelicidin precursors, cystatin C and kininogens. RARRES2 promotes calcium mobilization and chemotaxis of immature dendritic cells and macrophages. RARRES2 is secreted as a precursor of little biological activity, which requires proteolytic cleavage of its COOH-terminal domain to be exchanged into a potent and highly specific agonist of ChemR23. RARRES2 signals via its receptor, ChemR23 (CMKLR1), as a positive regulator of adipocyte differentiation and metabolic function. The Chemerin receptor acts as a coreceptor for SIV and some primary HIV-1 strains.

Stability

Lyophilized Chemerin although stable at room temperature for 3 weeks, should be

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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stored desiccated below -18°C . Upon reconstitution Chemerin should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

RARRES2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 138 amino acids and having a total molecular mass of 16 kDa. RARRES2 Human Recombinant is purified by proprietary chromatographic techniques.

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