

Recombinant Human Retinoic Acid Receptor Responder (Tazarotene Induced) 2

Cat. No. RARRES2-4546H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
Description	RARRES2 is a secreted chemotactic protein that initiates chemotaxis through the ChemR23 G protein-coupled seven-transmembrane domain ligand. RARRES2 is upregulated by the synthetic retinoid tazarotene and found in a vast variety of tissues. 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. The Chemerin receptor has another ligand, called tazarotene-induced gene

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Form	The RARRES2 protein was lyophilized from 0.02% TFA.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	It is recommended to reconstitute the lyophilized Chemerin in sterile 18Mμ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized Chemerin although stable at room temperature for 3 weeks, should be 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.

GENE INFORMATION

Gene Name	RARRES2 retinoic acid receptor responder (tazarotene induced) 2 [Homo sapiens]
Official Symbol	RARRES2
Synonyms	RARRES2; retinoic acid receptor responder (tazarotene induced) 2; TIG2; HP10433; retinoic acid receptor responder protein 2; RAR-responsive protein TIG2; tazarotene-induced gene 2 protein; chemerin; Retinoic acid receptor responder protein 2; Tazarotene-induced gene 2 protein
Gene ID	5919
mRNA Refseq	NM_002889

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Protein Refseq	NP_002880
MIM	601973
UniProt ID	Q99969.1
Chromosome Location	7q36.1
Function	molecular_function; receptor activity; receptor binding

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