
Product Data Sheet

Product Name: RARRES2 Human, Sf9

Cat. No.: GP24342

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Retinoic Acid Receptor Responder 2; Chemerin; Retinoic Acid Receptor Responder (Tazarotene Induced) 2; Tazarotene-Induced Gene 2 Protein; RAR-Responsive Protein TIG2; TIG2; Retinoic Acid Receptor Responder Protein 2; HP10433; Retinoic acid receptor responder protein 2; Chemerin; RAR-responsive protein TIG2; Tazarotene-induced gene 2 protein.		
Amino Acid Sequence	ADPELTEAQR RGLQVALEEFHKHPPVQWAF QETSVESA VD TFPAGIFVR LEFKLQQTSC RKRDWKKPEC KVRPNGRKRK CLACIKLGSE DKVLGRLVHCPIETQVLREA EEHQETQCLR VQRAGEDPHS FYFPGQFAFS HHHHHH.		
Formulation	RARRES2 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

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strains. The Chemerin receptor has another ligand, called tazarotene-induced gene.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

RARRES2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 146 amino acids (21-157 a.a.) and having a molecular mass of 16.9 kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). RARRES2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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