
Product Data Sheet

Product Name: RARRES2 Human, His
 Cat. No.: GP24341
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Chemerin; TIG2; Tazarotene-induced gene 2 protein; Retinoic acid receptor responder protein 2; RAR-responsive protein TIG2; RARRES2; HP10433.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MELTEAQRGG LQVALEEFHK HPPVQWAFQE TSVESAVDTP FPAGIFVRLE FKLQQTSCRK RDWKKPECKV RPNGRKRKCL ACIKLGSEDK VLGRLVHCPI ETQVLREAEH HQETQCLRVQ RAGEDPHSFY FPGQFAFS.		
Formulation	RARRES2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea 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 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

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

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

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

Product Data Sheet

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 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 158 amino acids (21-157a.a) and having a total molecular mass of 18 kDa. RARRES2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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

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