

32-4608: Recombinant Human Retinoic Acid Receptor Responder 2

Alternative Name : Chemerin, TIG2, Tazarotene-induced gene 2 protein, Retinoic acid receptor responder protein 2, RAR-responsive protein TIG2, RARRES2, HP10433.

Description

Source : Escherichia Coli. 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. 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

Product Info

Amount :	25 µg
Purification :	"Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE."
Content :	The RARRES2 protein was lyophilized from 0.02% TFA.
Storage condition :	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.
Amino Acid :	MELTEAQRRG LQVALEEFHK HPPVQWAFQE TSVESAAVDTP FPAGIFVRLE FKLQQTSRK RDWKKPECKV RPNGRKRKCL ACIKLGSEDK VLGRLVHCPI ETQVLREAE HQETQCLRVQ RAGEDPHSFY FPGQFAFS.

Application Note

It is recommended to reconstitute the lyophilized Chemerin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

