Recombinant Human RARG, Ligand Binding Domain, GST-tagged

Cat. No. RARG-1138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	Sf9 Cells
Description	Retinoic acid receptors are important in the regulation of growth and differentiation of epithelial tissues, embryonic and central nervous system development and hematopoiesis. Retinoids mediate their effect by two classes of nuclear receptor proteins, the Retinoic Acid Receptors (RARs) and the Retinoid X Receptors (RXRs), that each consist of three isotypes (α,β, and γ) encoded in separate genes. Upon dimerization with RXR, RARs can bind to specific enhancer sequences in the DNA, so-called Retinoic Acid Response Elements (RAREs), resulting in transcriptional activation of target genes in the presence of ligand. The RARγ in the adult is found almost exclusively in the skin. Retinoids affect epidermal cell growth and differentiation as well as sebaceous gland activity and exhibit immunomodulatory and anti-inflammatory properties. Current retinoid research targets the development of receptor-selective retinoids for tailoring and/or improving their therapeutic profile. Recombinant RARγ-LBD was expressed in a baculovirus system and purified by an affinity column in combination with FPLC chromatography.
Purity	> 90% by SDS-PAGE.
Form	Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT

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	and 20% glycerol.
Application	RARyhas been applied in DNA and protein-protein interaction assays.
Storage	Quality guaranteed for 12 months. Store at -80°C.Avoid freeze / thaw cycles.
Usage	For in vitro use only.

GENE INFORMATION

Gene Name	RARG retinoic acid receptor, gamma [Homo sapiens]
Synonyms	retinoic acid receptor, gamma; RARC; NR1B3; RARG; RAR-gamma; Nuclear receptor subfamily 1 group B member 3
Gene ID	5916
mRNA Refseq	NM_000966
Protein Refseq	NP_000957
MIM	180190
UniProt ID	P13631
Chromosome Location	12q13
Function	metal ion binding; protein binding; retinoic acid receptor activity; retinoid X receptor binding; sequence-specific DNA binding; steroid hormone receptor activity; transcription factor activity; zinc ion binding

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