

## Recombinant Human RARG, Ligand Binding Domain

Cat. No. RARG-1137H Lot. No. (See product label)

### SPECIFICATION

**Species** Human

**Source** Sf9 Cells

**Description**

Recombinant His tagged RAR $\gamma$ -LBD was expressed in a baculovirus system and purified by affinity and FPLC chromatography. 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( $\alpha$ , $\beta$ , and  $\gamma$ ) 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 RAR $\gamma$  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 RAR $\gamma$ -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 and 20% glycerol.

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<b>Application</b>	RARyhas been applied in DNA and protein-protein interaction assays.
<b>Storage</b>	Quality guaranteed for 12 months. Store at-80°C. ?Avoid freeze / thaw cycles.
<b>Usage</b>	For in vitro use only.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">RARG retinoic acid receptor, gamma [ Homo sapiens ]</a>
<b>Synonyms</b>	retinoic acid receptor, gamma; RARC; NR1B3; RARG; RAR-gamma; Nuclear receptor subfamily 1 group B member 3
<b>Gene ID</b>	<a href="#">5916</a>
<b>mRNA Refseq</b>	<a href="#">NM_000966</a>
<b>Protein Refseq</b>	<a href="#">NP_000957</a>
<b>MIM</b>	<a href="#">180190</a>
<b>UniProt ID</b>	<a href="#">P13631</a>
<b>Chromosome Location</b>	12q13
<b>Function</b>	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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