

Active Recombinant Human Retinoic Acid Receptor, Gamma, His-tagged

Cat. No. RARG-2512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human His-tagged RAR γ was expressed in <i>abaculovirus</i> system and purified by a combination of affinity and gel filtration chromatography. 58 kDa.
Species	Human
Source	Insect 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. RAR- γ in adults 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 improvement of their therapeutic profile.
Applications	RAR γ can be applied in DNA and protein-protein interaction assays.
Activity	1 unit is equal to 1 nanogram of purified protein. 20 ng is sufficient for an in vitro

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transcription assay and 100 ng is sufficient for a protein-protein interaction assay.

Quality Control

The purified protein is greater than 90% homogeneous based on SDS-PAGE gel analysis.

Reagents Supplied

1x dilution buffer A: 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 0.2 mM EDTA and 1mM DTT.

Storage Conditions

Store at -80°C.

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

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binding; sequence-specific DNA binding; steroid hormone receptor activity;
transcription factor activity; zinc ion binding

PDB rendering based
on 1dsz.

