

Recombinant Human Retinoid X Receptor, Alpha

Cat. No. RXRA-199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The DNA binding domain of RXR(111-228aa) was over expressed in E.coli and purified by using conventional column chromatography techniques (119 aa, 13.6 kDa).
Species	Human
Source	E.coli
ProteinLength	111-228 a.a.
Description	The retinoid X receptor(RXR) is a pleiotropic nuclear receptor transcription factor that interacts with a variety of nuclear receptor dimeric partner. RXR binds cognate response elements as a homodimer in the presence of its ligand, 9-cis retinoic acid, or as a heterodimer with other members of the nuclear hormone receptor superfamily including retinoic acid receptors(RAR), thyroid hormone receptors(TR), vitamin D receptors and peroxisome proliferators-activated receptors(PPAR). The RXR family includes three difference isoforms ; RXR a, b, g . Human RXR a gene is localized on 9q34.9 and encodes two major isoforms(RXR a1, RXR a2).
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl, 5 mM b-Mercaptoethanol.
Molecular Weight	13.6 kDa (119 aa).
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
Amino acid Sequence	MLGLNGVLKV PAHPSGNMAS FTKHICAICG DRSSGKHYGV YSCEGCKGFF KRTVRKDLTY TCRDNKDCLI DKRQRNRCQY CRYQKCLAMG MKREAVQEER QRGKDRNENE VESTSSANE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	RXRA retinoid X receptor, alpha [Homo sapiens]
Synonyms	RXRA; FLJ00280; FLJ00318; FLJ16020; FLJ16733; MGC102720; NR2B1; OTTHUMP00000022510; Retinoid X receptor alpha; retinoid X receptor, alpha; Nuclear receptor subfamily 2 group B member 1; Retinoid X receptor, alpha; Retinoid X receptor alpha (RXR-alpha).
Gene ID	6256
mRNA Refseq	NM_002957
Protein Refseq	NP_002948
MIM	180245
UniProt ID	P19793
Chromosome Location	9q34.3

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Pathway	Adipocytokine signaling pathway; Non-small cell lung cancer; PPAR signaling pathway; Small cell lung cancer; Thyroid cancer.
Function	ligand-regulated transcription factor activity; metal ion binding; protein binding; retinoid-X receptor activity; sequence-specific DNA binding; steroid binding; steroid hormone receptor activity; transcription coactivator activity; transcription factor activity; vitamin D receptor binding; vitamin D response element binding; zinc ion binding.

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